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AUTHOR Green, Dorothy E.
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ABSTRACT

National surveys of teenagers have provided information for making decisions about smoking prevention programs. Repeated surveys are necessary because smoking patterns change over time. The prevalence of adolescent smoking and the variables related to it were investigated as well as the potential utility of those variables in predicting habitual smoking by adolescents. Two studies were conducted: the first was a 1979 survey of teenagers aged 12-18, their smoking behaviors, and related attitudes and demographics; the second was a 1979 follow-up study of a cohort sample first interviewed in 1974. Results indicated that the increasing prevalence of teenage smoking observed between 1968 and 1974 has subsided and a decrease in the smoking rates of both boys and girls has also occurred. Girls had a higher smoking rate than boys in 1979. The smoking practices of family members exerted a great deal of influence on the teenagers. Among their peers, teenage smokers associated with friends who smoked; nonsmokers also tended to associate with nonsmokers. (Author/HLM)

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TEENAGE SMOKING

Immediate and Long-Term Patterns

Prepared by
Dorothy E. Green
Chilton Research Services

U.S. Department of Health, Education, and Welfare
Patricia Roberts Harris, Secretary
Mary F. Berry, Assistant Secretary for Education

National Institute of Education
Michael Timpane, Acting Director

Program on Educational Policy
and Organization
Marc S. Tucker, Associate Director

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FOREWORD

In January of 1978, Joseph Califano, then Secretary of Health, Education, and Welfare, in a speech before the National Interagency Council on Smoking and Health, labeled smoking "the major cause of preventable health disorders in the United States today." He then announced a major new initiative aimed at curbing cigarette smoking in the United States, stating that all agencies in HEW would contribute to this initiative. The National Institute of Education (NIE) and the National Institute of Child Health and Human Development (NICHD) were asked to take the lead in conducting research on what motivates children and adolescents to smoke, and on defining and describing those "children at risk" of becoming cigarette smokers.

A necessary first step was to collect current data on the number of children smoking cigarettes. Data on the prevalence of adolescent smoking had been collected annually or biennially by the National Institute for Drug Abuse (NIDA) and the National Clearinghouse for Smoking and Health (NCSH). While the NIDA data were quite recent, they focused primarily on hard drug usage; the NCSH studies, which focused on cigarette smoking and related attitudes and demographics, had not been conducted since 1974.

In order to collect current data comparable to the earlier NCSH data, and to be sensitive to long-term trends in teenage smoking, NIE duplicated the methods of the earlier surveys, including use of the same questionnaire and telephone interview methodology. The data collected were augmented by a separate but related study which was also aimed at defining (more precisely) "children at risk." That second study surveyed half of the adolescents who were originally surveyed in 1974, to see if what was known about them as adolescents could have predicted their smoking behavior as young adults. This report contains the results of both studies.

We at NIE hope that the report will be useful not only to those conducting further research on teenage smoking, but also to persons designing programs aimed at encouraging adolescents to avoid smoking and other activities that may endanger their health.

Michael Timpane
Acting Director
National Institute of Education

PREFACE

This report presents the results of two studies, conducted by the NIE in the winter of 1978 and the spring of 1979, on the prevalence of adolescent smoking and variables related to it, and the potential utility of those variables in predicting later, more "habitual," smoking in young adulthood. The two studies are presented in the two parts of the report:

- Part I describes the results of a 1979 survey of teenagers, ages 12 to 18, their smoking behavior, and related attitudes and demographics;

- Part II describes a 1979 follow-up study of a cohort sample, first interviewed in 1974 when they were 12 to 18 years old, tracing their smoking patterns into young adulthood (17-23).

Part I builds on, and updates the trends found in, four earlier surveys conducted for the National Clearinghouse for Smoking and Health (then an agency of the Public Health Service) in 1968, 1970, 1972, and 1974. Each of the surveys, including the present one, has been essentially the same in design, sample, and questions, in order to provide long-term trend data on adolescent smoking. The first survey, in 1968, was designed around what was then known about adolescent behavior in general and adolescent smoking in particular. It was recognized that most, if not all, adult smokers began smoking in their teens. If the smoking habit, just at that time being recognized as related to a number of health disorders, was to be effectively countered, it was surmised that adolescence might be the most effective point of intervention. Intervention would require greater knowledge about the age at which smoking began, the pattern it followed, and the factors that might predispose some youth to smoke. Thus, that first survey took as the questions of interest the variables known or suspected to be related to the onset of smoking--the smoking behavior of significant persons in the teenager's life (parents, siblings, best friends); educational level of parents or educational aspirations of the adolescent; employment history; age and grade in school; sex; etc. Those variables did in fact prove to be related to adolescent smoking, and they have been used in subsequent surveys. By the 1974 survey, a new instrument had been devised detailing adolescent attitudes related to smoking, and a shortened version was incorporated in the 1974 and 1979 studies.

The survey reported in Part I continued to monitor the evidence on smoking practices and concomitant variables in the same manner that was begun over a decade ago. The results paint the cross-sectional portrait of adolescent smoking at this point in time.

Part II describes a more experimental and exploratory study designed to elicit the variables related to adolescent smoking that might

be useful in making predictions about smoking patterns in young adulthood. While it has long been known that many adult smokers began experimenting with cigarettes in adolescence, it has also been recognized that smoking prevalence among teenagers is not as great as that among adults. At the same time, there has been no direct evidence on which adolescents became "confirmed" or "habitual" smokers as adults. For this reason, the NIE resurveyed as many of the adolescents originally interviewed in 1974 as could be found. Approximately half of those 12- to 18-year-olds, now aged 17 to 23, were found and questioned about their current smoking behavior and attitudes, as well as their smoking histories from 1974 to 1979. Part II describes that group, then and now. Additionally, it attempts to understand which known facts about adolescents could most usefully and parsimoniously predict their smoking behavior as young adults.

The report is structured in a manner that minimizes the number of data tables within the text, presenting the relevant detailed tables in appendices following each part.

Ann Milne
Senior Associate
National Institute of Education

CONTENTS

		Page
FOREWORD		iii
PREFACE		v
	PART I	
	National Patterns of Cigarette Smoking 1979	
I.1	BACKGROUND	3
I.2	METHODOLOGY	4
I.3	FINDINGS	6
	Trends in Prevalence of Teenage Smoking Family Patterns Peer Patterns Working Practices Educational Aspirations Perception of the Health Threat Prediction of Future Smoking Behavior Dynamics of Teenage Smoking	
I.4	DISCUSSION	25
	APPENDIX A: Exhibits A-1 to A-12	29
	APPENDIX B: Description of the Sample	113
	MAIN QUESTIONNAIRE - Fifth Study - Cigarette Smoking Among Teenagers	119
	PART II	
	Longitudinal Study 1974 - 1979	
II.1	BACKGROUND	141
II.2	DESCRIPTION OF THE SAMPLE	142
	Comparison of the Follow-up Respondents with the 1974 Survey Sample	
	Characteristics of the 1979 Follow-up Respondents	
	Smoking History of 1979 Follow-up Sample	

Oct 7

II.3 PREDICTORS OF SMOKING BEHAVIOR 161

Total Sample

Predictors of Change in Subsamples by 1974 and 1979 Smoking Status

Discussion

II.4 CONCLUSIONS 168

APPENDIX C: Exhibits C-1 to C-15 169

APPENDIX D: Technical Appendixes 221

1979 FOLLOW UP - to 1974 Study of Cigarette Smoking Among Teenagers 239

LIST OF EXHIBITS

1. Teenage Cigarette Smoking - Age by Sex 7
2. Percent Current Regular Smokers - Teenage 9
3. "Tar" Level of Cigarettes Smoked by Teenagers - 1974 and 1979 11
4. Household Composition - Percentage of Smokers 13
5. Parental Smoking 14
6. Parent and Older Sibling Smoking Behavior - Percentage of Teenagers in Each Category Who Smoke 15
7. Smoking Behavior - Parental & Older Sibling Smoking Habits 16
8. Possibility of Smoking Five Years Hence 19
9. Question: If the cost of a pack of cigarettes were (double the amount respondent is now paying), would you be likely or unlikely to smoke cigarettes? 21
10. Dynamics of Teenage Smoking - Mean Factor Scores 22
11. Description of 1979 Follow-Up Respondents by Sex and 1974 Age and Smoking Behavior 143
12. 1974 and 1979 Smoking Status by Age and Sex 145
13. Highest Educational Level by Smoking Change Categories 148
14. Dynamics of Teenage Smoking Mean Scores - 1974-1979 Longitudinal Sample 152
15. Number of Years Cigarettes Smoked on a Fairly Regular Basis 155
16. Number of Cigarettes Smoked Per Day 156
17. Question: If the cost of a pack of cigarettes were (double the amount respondent is now paying), would you be likely or unlikely to smoke cigarettes? 158
18. "Tar" Level of Cigarettes Smoked by Respondents in 1979 Follow-up Sample 160

A- 1. Summary of Teenage Smoking 31
A- 2. Teenage Smoking and Family Structure 33
A- 3. Parental Smoking Habits 35

A- 4.	Older Sibling Smoking Habits	51
A- 5.	Parental and Older Sibling Smoking Habits	67
A- 6.	Teenage Cigarette Smoking - Parental Education	79
A- 7.	Smoking Behavior of Four Best Friends	83
A- 8.	Working Practices During Past Year	87
A- 9.	Course Now Taking in High School	91
A-10.	Possibility of Smoking Five Years from Now	95
A-11.	Dynamics of Teenage Smoking - Mean Factor Scores	99
A-12.	Dynamics of Smoking - Distribution of Responses to Attitude Items	100
C- 1.	Question: What would you say is the possibility that five years from now you will be a cigarette smoker?	171
C- 2.	Older Sibling Smoking Habits	177
C- 3.	Smoking Behavior of Four Best Friends	183
C- 4.	Question: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?	189
C- 5.	Question: Has anyone, including yourself, that you have personally known, ever had coronary heart disease? How about lung cancer? And, finally, emphysema or chronic bronchitis?	195
C- 6.	Respondent's Present Level of Education	197
C- 7.	Last Grade Respondent Completed (For Those Not Currently in School)	203
C- 8.	Question: How long has it been since you smoked cigarettes? .	209
C- 9.	Question: Now, thinking about cigarette smoking, how old were you when you started smoking cigarettes regularly?	210
C-10.	Current Smoker's Question: Since you started smoking, did you ever try just to cut down the number of cigarettes you allowed yourself to smoke without trying to stop smoking entirely? Ex-Smoker's Question: Before you stopped smoking entirely, did you ever try to just cut down the number of cigarettes you allowed yourself to smoke without trying to stop smoking entirely?	211
C-11.	Current Smoker's Question: About how many times would you say you have made a fairly serious attempt to stop smoking cigarettes entirely? Ex-Smoker's Question: Before the time you stopped smoking entirely, about how many times would you say you made a fairly serious attempt to stop smoking cigarettes?	212
C-12.	Question: When you buy (bought) cigarettes, do (did) you usually buy cigarettes by the pack or by the carton?	213
C-13.	Question: If there were an easy way to stop smoking, would you try it?	214
C-14.	Question: Are you in any way concerned about the possible effects of cigarette smoking on your health?	215
C-15.	Perceived Health Hazards of Different Kinds of Cigarettes	218

PART I

National Patterns of Cigarette Smoking
1979

I.1 BACKGROUND

Since the mid-1960's, when cigarette smoking was incontrovertibly shown to be associated with disease and death, there has been a proliferation of programs directed toward young people. Not only have schools initiated programs designed to deter youth from taking up cigarette smoking, but voluntary health agencies, youth-serving organizations, and government agencies have carried out programs designed for young people. Of necessity, early programs were based upon educational theory combined with estimates of the characteristics of teenagers who become cigarette smokers. Since that time, however, national surveys of teenagers have provided information that has proven invaluable in making decisions about smoking prevention programs. The first survey was carried out in December 1967 and January 1968.[1] Subsequent surveys were completed in January of 1970,[1] 1972,[2] 1974,[2] and 1979. Repeated surveys are necessary since the smoking picture changes with the times, and each survey has added to our knowledge. The 1979 survey, then, furnishes up-to-date information which, added to the findings of previous surveys, enriches the information available to program planners.

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[1] Teenage Smoking: National patterns of cigarette smoking, ages 12 through 18, in 1968 and 1970, DHEW Publication No. HSM 72-7508. Washington, D.C., Department of Health, Education, and Welfare, Public Health Service, 1972.

[2] Teenage Smoking: National patterns of cigarette smoking, ages 12 through 18, in 1972 and 1974, DHEW Publication No. NIH 76-391. Washington, D.C., Department of Health, Education, and Welfare, Public Health Service, 1974.

I.2 METHODOLOGY

For the 1968 survey, boys and girls, age 12 to 18 inclusive, were interviewed by long-distance telephone or in face-to-face interviews in households without telephones. The face-to-face interviews were considered necessary because it was not known whether there might be differences in smoking behavior of youths in telephone households and in those without telephones.

The results of the 1968 survey indicated that the addition of households without telephones to the sample resulted in little change in the data obtained from telephone households. For this reason, teenagers in households without telephones were not included in the 1970, 1972, 1974, and 1979 surveys.

All interviews were conducted by Chilton Research Services of Philadelphia in the latter part of December and early January. The surveys were conducted at this time of year to maximize the number of teenagers who could be reached because they were at home for the holidays.

For the 1979 study, Chilton Research Services interviewed by long-distance telephone 2,639 boys and girls from 12 through 18 years of age. Between 185 and 196 interviews were conducted with boys of each age from 12 to 18 and with girls of each age.

Stratified probability samples were randomly selected by computer from a data bank that included all possible combinations of area codes (in the contiguous 48 states), telephone exchanges, and subscriber numbers, with a sufficient surplus number of selections to allow for the elimination of nonresidence telephones and residences containing no teenagers. The sampling plan is a three-stage procedure. First, the PSUs (telephone exchanges) were selected. Second, households within each PSU were selected. Third, the teenager within the household was selected. The procedure is described in detail in Appendix B. Chilton Research Services has determined that the appropriate DEFF (design effect factor) for use in estimating the standard error in a national telephone survey is 1.2. The formula for the standard error of a proportion (p), then, is

$$SE_p = \sqrt{\frac{1.2\,pq}{n}}$$

Standard errors for several selected sample sizes (n's), and for some percentages, are shown below.

Sample Size	Percentages: 2 or 98	5 or 95	10 or 90	20 or 80	50
50	2.2	3.4	4.6	6.2	7.7
100	1.5	2.4	3.3	4.4	5.5
200	1.1	1.7	2.3	3.1	3.9
500	0.7	1.1	1.5	2.0	2.4
1000	0.5	0.8	1.0	1.4	1.7

Standardized questionnaires, administered by trained, professional interviewers, took about 15 minutes to complete.

The respondents were classified by smoking status into one of five categories--those who had never smoked, experimenters, ex-smokers, current occasional smokers, and current regular smokers. We defined these categories as follows:

> Those in the "never smoked" category have never smoked a cigarette, not even a few puffs.
>
> Those designated as "experimenters" have smoked at least a few puffs of a cigarette, but have not smoked as many as 100 cigarettes.
>
> The "ex-smoker" is characterized as one who has smoked at least 100 cigarettes but no longer smokes them. This category includes both ex-regular and ex-occasional smokers.
>
> "Current occasional smokers" include those who smoke less than one cigarette a week.
>
> Those defined as "current regular smokers" smoke one or more cigarettes per week or one or more a day.

Those who had never smoked and those who had experimented only were classified in a single category for purposes of analysis. In addition, since the sample size in each category, age by sex by smoking habits, was small, ages were grouped in order to have a more stable base for comparisons between smoking behavior and other characteristics of the teenagers studied. Thus, ages 12, 13, and 14 were combined; ages 15 and 16 were combined; and ages 17 and 18 were combined. In all but a few of the tables, the data are reported for those groups. Throughout the report, except where otherwise specified, current regular smokers are referred to as "smokers," and all others are combined into one category of "nonsmokers." The tables are arranged in such a way that data are reported for each selected age group, by sex, and for the total of the three age groups, that is, for ages 12 to 18. When reference is made to "total," or "total teenagers," the 12 to 18 group is indicated. Thus, the "total sample" of 12- to 18-year-olds is comparable to the samples of earlier studies.

Because of rounding error, percentages in the tables to not necessarily add to 100%. For the same reason, adding the percentages of current daily smokers to those of current weekly smokers does not necessarily result in the percentage reported for Current Regular Smoker (Weekly and Daily). For example, in Exhibit A-1 (see Appendix A) of 15- to 16-year-old boys, 1.1% are weekly smokers, and 12.5% are daily smokers. However, the total, 51 boys, is actually 13.5% of the 377 boys in the age group.

I.3 FINDINGS

Trends in Prevalence of Teenage Smoking

The years between the first national teenage survey, conducted in 1968, and the latest one, in 1979, have been marked by change. Furthermore, the change has been an encouraging one since, overall, there has been a decrease in the proportion of teenage boys and girls who smoke. (See Exhibits 1 and 2.) During the first half of the period (1968-1974) the prevalence of smoking among boys stayed about the same, with the proportion of smokers in the 12 to 18 age group studied remaining around 16%. During the last half of the period (1974-1979), however, there was a decrease in the proportion of boys who smoked. It dropped from 16% in the first half of the period to 11% in the second half. Furthermore, the decrease was observed in every age group, but was most dramatic in the oldest group of boys--aged 17 and 18--where the proportion decreased from 31% in 1974 to 19% in 1979. In other words, while almost one in three of the 17- and 18-year-old boys was smoking in the years 1968 to 1974, only one in five was smoking in 1979. A similar, but not so striking, decrease was observed in the smoking behavior of 15- and 16-year-old boys, where the smoking rate dropped from about 18% in the first half of the period studied to less than 14% in 1979. In line with the other age groups, there was also a decrease in the youngest age group--those 12, 13, and 14 years old. That was a very slight decrease, but cigarette smoking in that age group has always been so low that there is little room for decrease.

Changes among girls have shown a different pattern. Between 1968 and 1974, there were increases in the proportion of cigarette smoking among girls in every age group; overall, the proportion of girls smoking increased from 8.4% in 1968 to 15.3% in 1974. A promising reversal of this trend was seen in the 1979 survey, when the proportion dropped to 12.7%. The decrease was not seen in every age group, however. Among the 17- and 18-year-old girls there was no change. It appears that the smoking rate for that age group has leveled off since 1972, at about one smoker in every four. The biggest change was in the 15- and 16-year-olds, who had shown a steady rise from 9.6% in 1968 to 20.2% in 1974. In 1979, this rate had dropped back to 11.8%. As with the boys, the prevalence of smoking in the 12, 13, and 14 age group remained very low.

Traditionally, smoking has been much more prevalent among boys than among girls. In 1968, for example, nearly twice as many boys smoked as girls (14.7% and 8.4%, respectively). By 1979, the girls had passed the boys, with 12.7% of girls and 10.7% of boys being classified as smokers. The overall difference is accounted for by one age group, the 17- and 18-year-olds, where 26.2% of the girls smoke compared with 19.3% of the boys. It is possible that the girls in this age group, having leveled off just as the boys did in the late 1960's and early 1970's, will begin to show a decrease in the future. Certainly, the marked decrease in 15- to 16-year-olds who smoke supports this speculation. While alarming statements are often made to the effect

Exhibit 1

TEENAGE CIGARETTE SMOKING

AGE BY SEX

BOYS

Smoking Status		12,13,14		15,16		17,18		Total	
		N	%	N	%	N	%	N	%
Never Smoked or Experimented Only									
	1968	876	93.1	465	75.2	344	54.7	1685	77.0
	1970	512	90.5	268	70.5	178	48.1	958	72.8
	1972	533	91.1	273	68.3	211	54.4	1017	74.1
	1974	496	90.7	253	69.5	202	55.3	951	74.5
	1979	527	92.8	284	75.3	254	68.1	1065	80.8
Ex-Smoker									
	1968	25	2.7	34	5.5	71	11.3	130	5.9
	1970	21	3.7	35	9.2	52	14.1	108	8.2
	1972	20	3.4	50	12.5	56	14.4	126	9.2
	1974	28	5.1	45	12.4	44	12.1	117	9.2
	1979	23	4.0	38	10.1	46	12.3	107	8.1
Current Occasional Smoker	1968	13	1.4	14	2.3	24	3.8	51	2.3
	1970	1	0.2	3	0.8	2	0.5	6	0.5
	1972	5	0.9	6	1.5	4	1.0	15	1.1
	1974	0	0.0	0	0.0	6	1.6	6	0.5
	1979	0	0.0	4	1.1	1	0.3	5	0.4
Current Regular Smoker	1968	27	2.9	105	17.0	190	30.2	322	14.7
	1970	32	5.7	74	19.5	138	37.3	244	18.5
	1972	27	4.6	71	17.8	117	30.2	215	15.7
	1974	23	4.2	66	18.1	113	31.0	202	15.8
	1979	18	3.2	51	13.5	72	19.3	141	10.7
Total	1968	941	100.1	618	100.0	629	100.0	2188	99.9
	1970	566	100.1	380	100.0	370	100.0	1316	100.0
	1972	585	100.0	400	100.1	388	100.0	1373	100.1
	1974	547	100.0	364	100.0	365	100.0	1276	100.0
	1979	568	100.0	377	100.0	373	100.0	1318	100.0

Chilton Teenage Telephone Surveys--1968, 1970, 1972, 1974, 1979

Exhibit 1 (Cont.)

TEENAGE CIGARETTE SMOKING

AGE BY SEX

GIRLS

Smoking Status		12,13,14		15,16		17,18		Total	
		N	%	N	%	N	%	N	%
Never Smoked or Experimented Only									
	1968	919	97.9	552	84.4	462	73.0	1933	86.8
	1970	536	95.0	312	81.5	264	70.0	1112	84.0
	1972	569	95.3	312	77.0	277	66.7	1158	81.7
	1974	495	90.2	250	69.3	228	62.1	973	76.2
	1979	514	92.3	319	81.8	239	63.9	1072	81.2
Ex-Smoker									
	1968	7	0.7	25	3.8	38	6.0	70	3.1
	1970	8	1.4	15	3.9	22	5.8	45	3.4
	1972	11	1.8	26	6.4	30	7.2	67	4.7
	1974	26	4.7	33	9.1	42	11.4	101	7.9
	1979	19	3.4	23	5.9	34	9.1	76	5.8
Current Occasional Smoker									
	1968	7	0.7	14	2.1	15	2.4	36	1.6
	1970	3	0.5	1	0.3	5	1.3	9	0.7
	1972	0	0.0	1	0.2	3	0.7	4	0.3
	1974	1	0.2	5	1.4	2	0.5	8	0.6
	1979	0	0.0	2	0.5	3	0.8	5	0.4
Current Regular Smoker									
	1968	6	0.6	63	9.6	118	18.6	187	8.4
	1970	17	3.0	55	14.4	86	22.8	158	11.9
	1972	17	2.8	66	16.3	105	25.3	188	13.3
	1974	27	4.9	73	20.2	95	25.9	195	15.3
	1979	24	4.3	46	11.8	98	26.2	168	12.7
Total	1968	939	99.9	654	99.9	633	100.0	2226	99.9
	1970	564	99.9	383	100.1	377	99.9	1324	100.0
	1972	597	99.9	405	99.9	415	99.9	1417	100.0
	1974	549	100.0	361	100.0	367	99.9	1277	100.0
	1979	557	100.0	390	100.0	374	100.0	1321	100.1

Chilton Teenage Telephone Surveys--1968, 1970, 1972, 1974, 1979

Exhibit 2
PERCENT CURENT REGULAR SMOKERS — TEENAGE BOYS 1968-1979

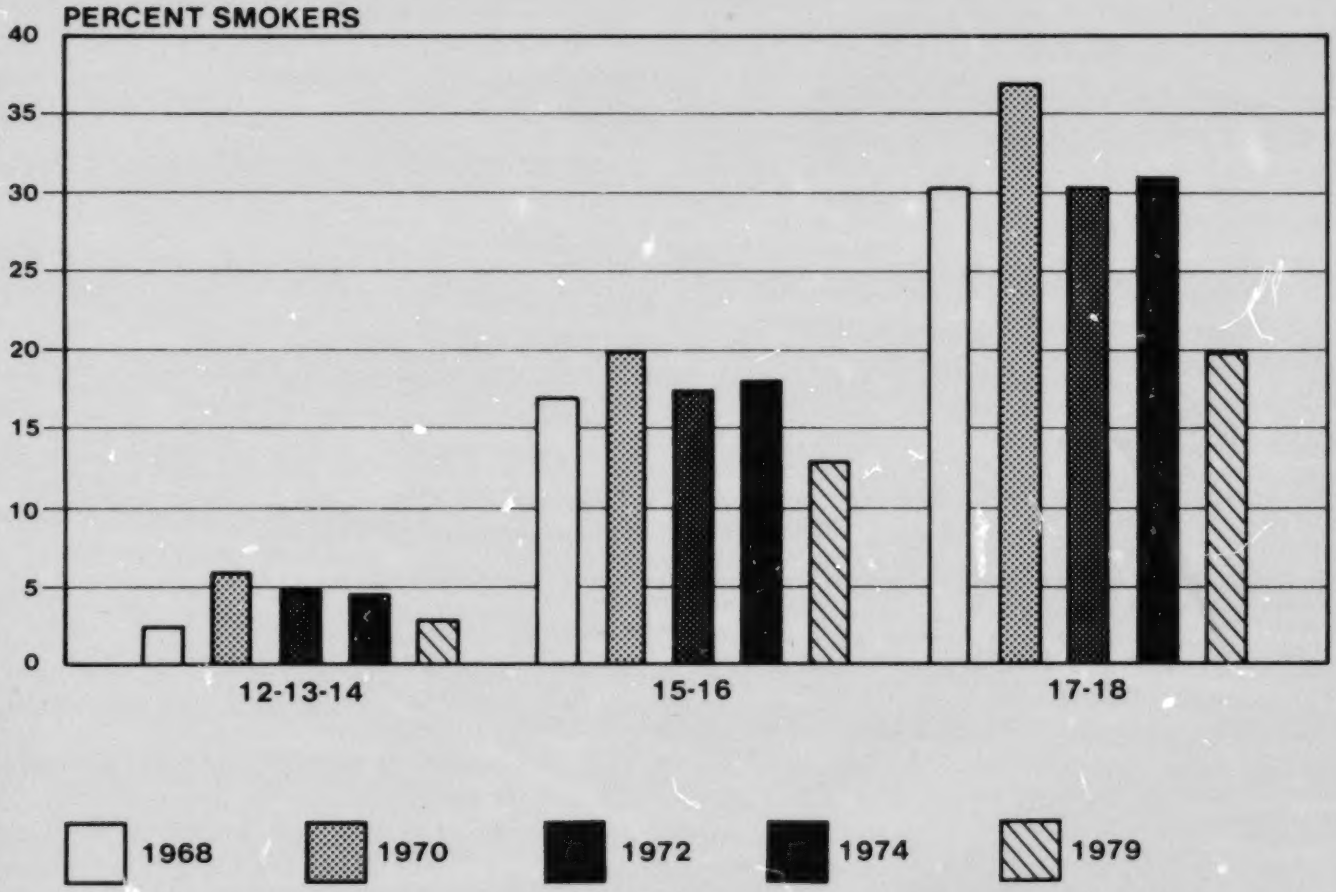
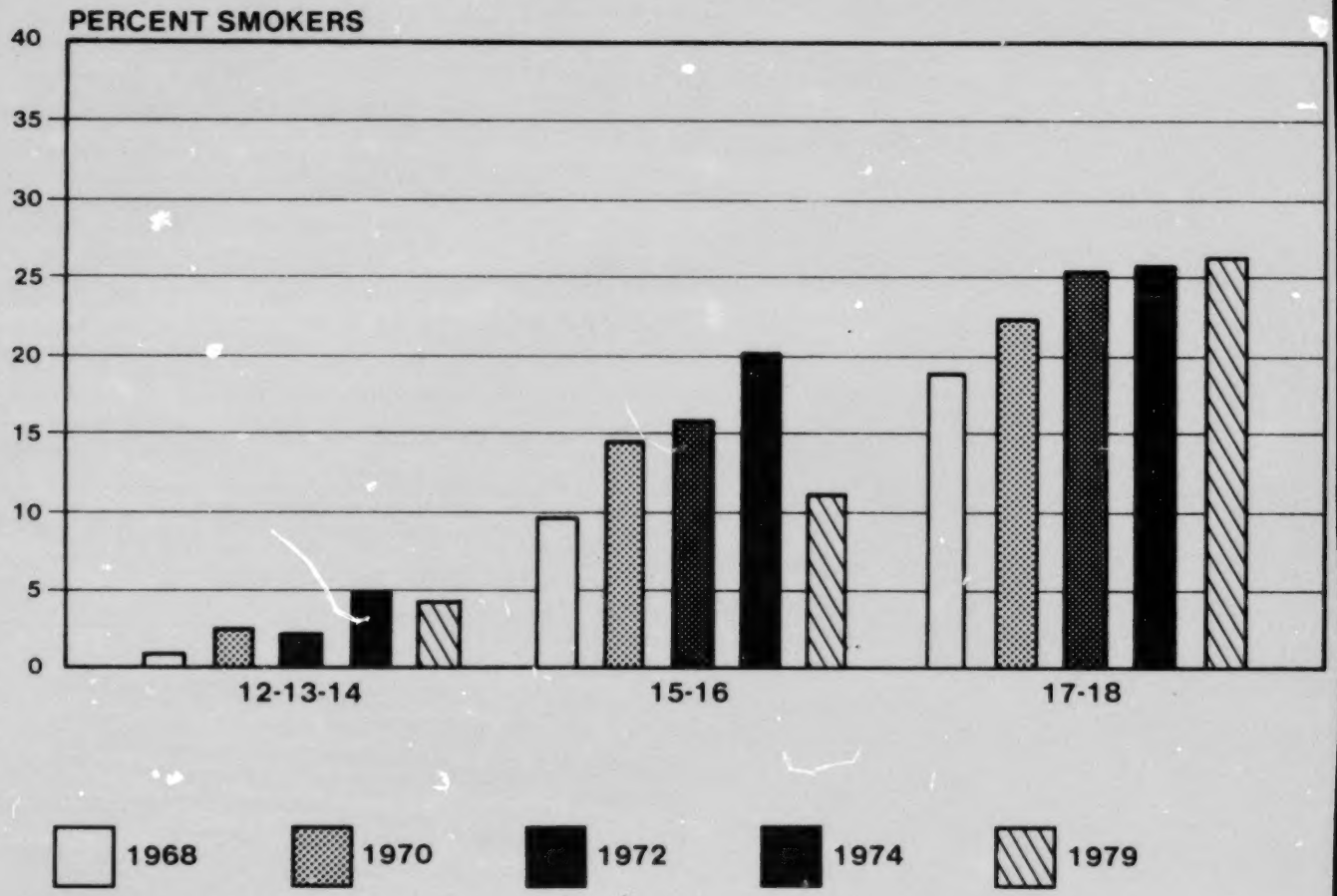


Exhibit 2
PERCENT CURRENT REGULAR SMOKERS — TEENAGE GIRLS
1968-1979



Oct. 15

that teenagers, particularly girls, are starting to smoke at earlier ages, the data lend no support to such statements. In fact, smoking prevalence in those age 16 and below has shown a marked decrease among both boys and girls.

Another trend in teenage smoking has been a change in the kind of cigarette the teenager smokes. In 1974, approximately two-thirds of the teenagers were smoking cigarettes with more than 17 milligrams of "tar" (67.5% of the boys and 66.1% of the girls). In 1979, however, only about one-fourth of the teenagers were smoking cigarettes with that much "tar" (24.6% of the boys and 26.7% of the girls). At the other end of the continuum, those smoking "lower tar" cigarettes (with 16 milligrams of "tar" or less) increased from 7.7% in 1974 to 38.4% in 1979. Those smoking cigarettes with 17 milligrams of "tar" increased from 25.4% in 1974 to 35.8% in 1979. That dramatic shift is probably due primarily to two factors: (1) increased availability of "low tar" cigarettes on the market, and (2) increased awareness of differential health hazards of different kinds of cigarettes (Exhibit 3).

Exhibit 3

"TAR" LEVEL OF CIGARETTES SMOKED BY TEENAGERS

1974 and 1979

	Boys				Girls				Total			
	1974		1979		1974		1979		1974		1979	
	N	%	N	%	N	%	N	%	N	%	N	%
10 mg. or less	1	0.5	3	2.5	1	0.5	18	12.3	2	0.5	21	7.8
11-15 mg.	11	5.6	36	29.5	13	6.8	33	22.6	24	6.2	69	25.7
16 mg.	3	1.5	3	2.5	1	0.5	10	6.8	4	1.0	13	4.9
17 mg.	49	24.9	50	41.0	50	26.0	46	31.5	99	25.4	96	35.8
18 mg.	73	37.1	13	10.7	60	31.2	25	17.1	133	34.2	38	14.2
19 mg.	20	10.2	8	6.6	32	16.7	6	4.1	52	13.4	14	5.2
20 mg. or more	40	20.3	9	7.4	35	18.2	8	5.5	75	19.3	17	6.3
Total	197	100.3	122	100.2	192	99.9	146	99.9	389	100.0	268	99.9

Base: Current smokers who provided sufficient information for a determination of "tar" level to be made.

Family Patterns

Household Composition

Each teenager was asked to describe the composition of his or her household--whether it included a mother and a father, only one parent, or neither parent. In the 1979 survey, one in five (19.3%), lived in a household where both parents (or parent surrogates) were not present. The percentage increased from 16.0% at the time of the 1968 survey. In every age group, among both boys and girls, teenagers in such homes have a much higher smoking rate than do those in households with both parents present. Overall, the smoking rates are about twice as high in households without both parents. Among boys, 8.6% of those in households with both parents present are smokers, compared with 19.3% in all other households. Comparable percentages for girls are 10.7% and 21.2%. The pattern has continued throughout all five surveys. (See Appendix A, Exhibit A-2; also Exhibit 4.)

Family Smoking Pattern

Where both parents were present in the household, the teenager was asked about the smoking practices of his or her parents. In families where one or both parents smoke, the respondent is more likely to smoke than if neither parent smokes. Among boys, in homes where both parents smoke, 13.5% of the sons smoke; in homes where one parent smokes, 9.1% of the boys smoke; and in homes where neither parent smokes, 5.6% of the boys smoke. Comparable percentages for girls are 15.1%, 12.7%, and 6.5%, respectively (Exhibit A-3). Those relationships hold for the older teenagers, 17- and 18-year-olds, as well as for the younger, in spite of the fact that they might be expected to have declared their independence from family values and practices (Exhibit 5).

Overall, it seems to make little difference which of the parents is the smoker, if both parents are present in the household and only one smokes. There are, however, variations by age. The 17- and 18-year-olds appear to be more likely to smoke if the mother is the smoker. The pattern is not consistent for younger teenagers.

The smoking behavior of older brothers and sisters also influences teenage smoking. In fact, both boys and girls with older siblings are more likely to smoke if one or more of the older siblings smoke than if none of them smoke (Exhibit A-4). Boys with older siblings who smoke are more than three times as likely to smoke as boys with older siblings, none of whom smoke (19.8% and 5.9%, respectively). Boys with no older siblings are close to those with older siblings who do not smoke, with a smoking rate of 7.5%. The findings for girls follow the same pattern, with a smoking rate of 20.7% where an older sibling smokes, 9.1% where there is one or more older siblings none of whom smoke, and 8.2% where there is no older sibling.

When we look at parent and older sibling smoking together (Exhibit A-5), we find that among girls the highest smoking rate is in homes where at least one parent smokes and at least one older sibling smokes (20.3%). Among boys, however, the rate in this same house-

Exhibit 4
HOUSEHOLD COMPOSITION
Percentage of Smokers

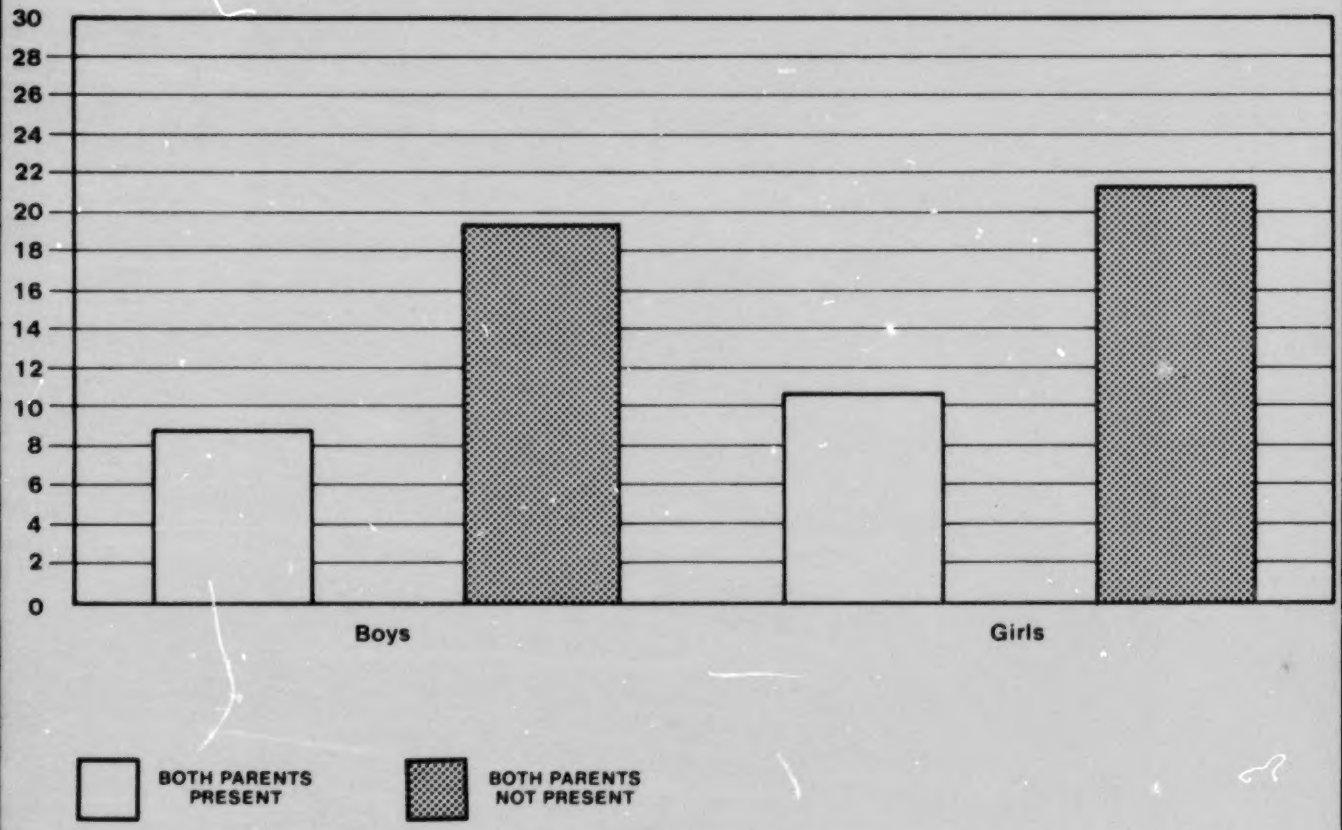


Exhibit 5

PARENTAL SMOKING

	Both Smoke	Only Father Smokes	Only Mother Smokes	Neither Smokes
Boys				
12-14	3.9	2.7	4.2	0.5
15-16	21.3	12.9	5.9	6.0
17-18	20.0	15.1	25.6	12.6
Total	13.5	8.5	9.9	5.6
Girls				
12-14	5.0	4.3	3.3	1.6
15-16	17.4	11.8	13.6	6.8
17-18	33.3	22.1	32.4	13.9
Total	15.1	12.2	13.7	6.5

hold structure is slightly lower (17.0%) than in households where neither parent smokes but at least one older sibling smokes (19.5%). In households where neither parent smokes and no older sibling smokes, the teenager is highly unlikely to smoke. Of 339 teenagers who reported living in such households, only eight are smokers! (See Exhibits 6 and 7.)

Parental Education

Findings of past surveys have indicated a clear-cut relationship between teenage smoking and parental education. While differences are still found in the 1979 survey, they are not as pronounced as they have been in the past (Exhibit A-6). Among boys who reported that one or both parents attended college,

Exhibit 6

PARENT AND OLDER SIBLING SMOKING BEHAVIOR

Percentage of Teenagers in Each Category Who Smoke

	Have No Older Sibling		Have Older Sibling			
			One/Both Parents Smoke		Neither Parent Smokes	
	One or Both Parents Smoke	Neither Parent Smokes	Older Sibling Smokes	No Older Sibling Smokes	Older Sibling Smokes	No Older Sibling Smokes
Boys:						
12-14	2.8	0.0	6.3	2.7	0.0	0.0
15-16	17.6	4.0	18.8	6.3	21.1	2.1
17-18	15.0	7.9	25.4	16.7	31.7	0.0
Total	8.2	2.9	17.0	7.5	19.5	0.6
Girls:						
12-14	3.7	0.0	8.5	1.3	3.4	2.9
15-16	8.2	5.7	20.0	13.0	15.2	2.4
17-18	29.7	15.4	32.9	19.6	25.0	6.7
Total	9.7	4.1	20.3	9.7	15.3	4.1

BASE: Both parents present in household.

Exhibit 7
SMOKING BEHAVIOR
BOYS
Parental & Older Sibling Smoking Habits
(Both Parents Present)

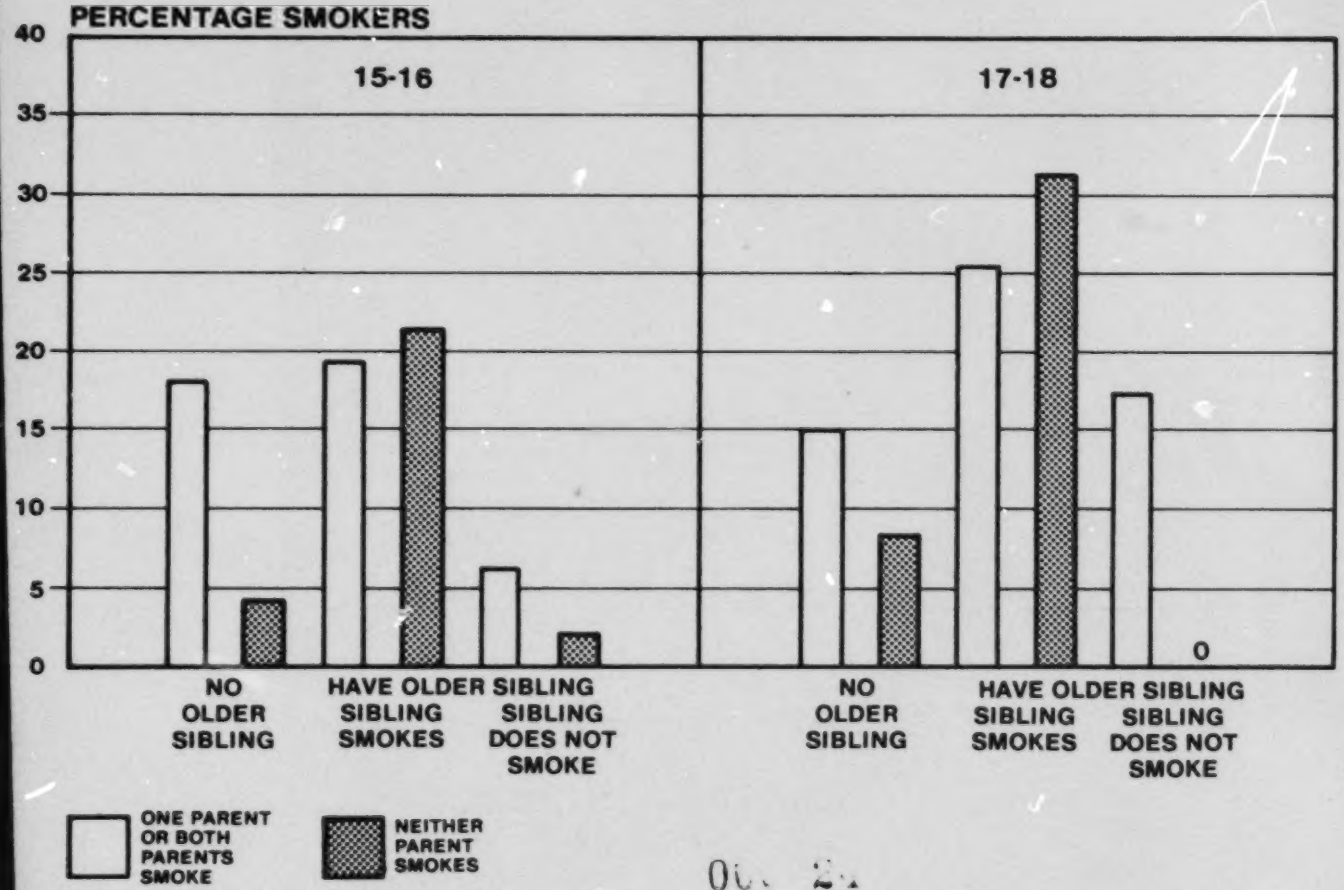
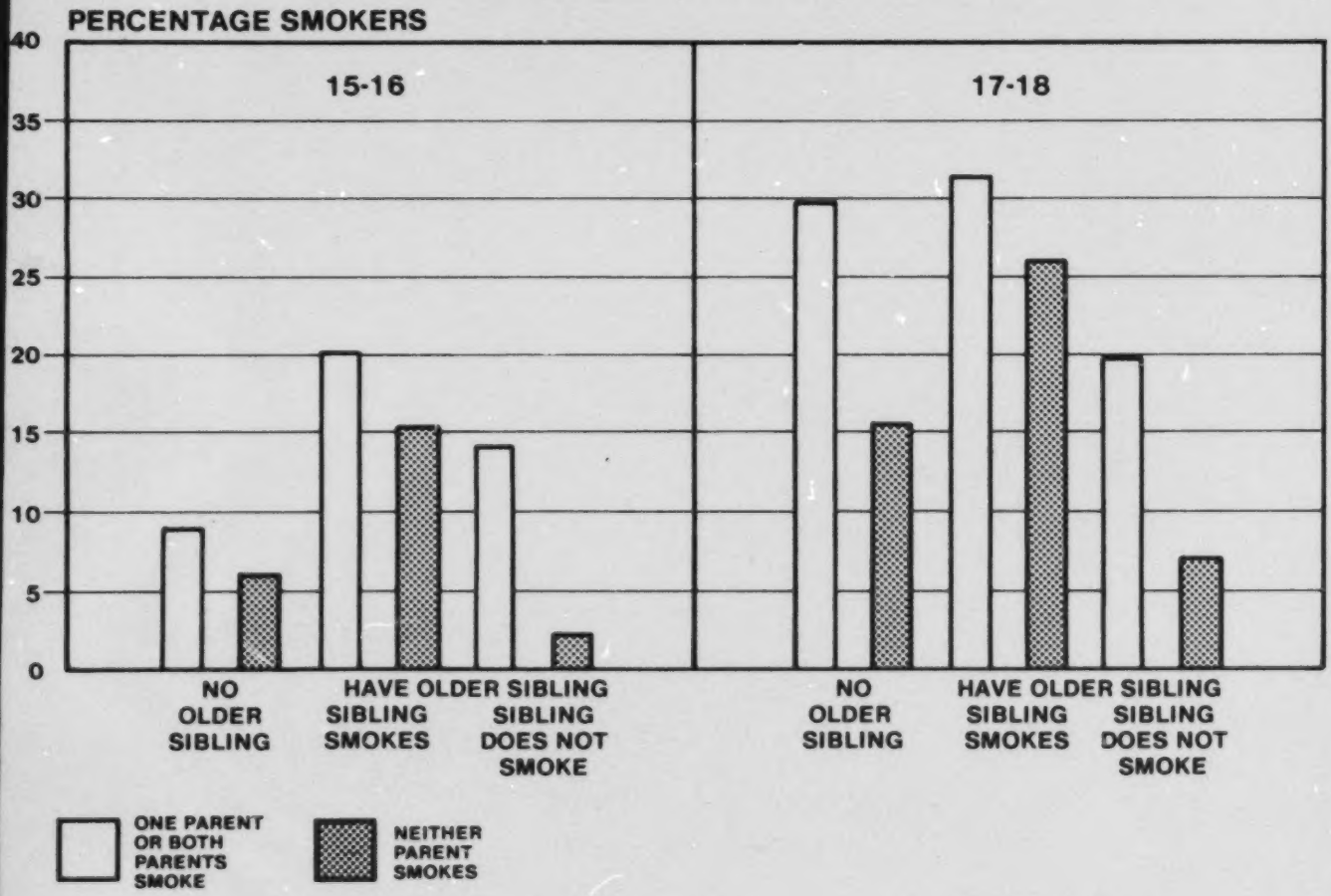


Exhibit 7
SMOKING BEHAVIOR
GIRLS
Parental & Older Sibling Smoking Habits
(Both Parents Present)



9.9% are smokers, compared with 10.9% from families in which neither parent attended college. Among the 15- to 16-year-olds, those with less well-educated parents have a higher smoking rate than those with better educated parents, but this is reversed in the 17- to 18-year-olds. Those with the educational level of parents "not stated" have the highest smoking rate of all (12.4%).

Among girls, the difference is seen in every age group. Overall, 14.8% of girls from homes in which neither parent attended college are smokers, compared with 10.6% from homes in which at least one parent attended college. Of those whose parental education was "not stated," 11.7% are smokers.

Peer Patterns

Respondents were asked how many of their four best friends have at least experimented with smoking cigarettes, and, of those, how many had just experimented, how many smoked occasionally, and how many were regular smokers (Exhibit A-7). Among respondents who smoke, an overwhelming majority (87.6% of boys, 94.0% of girls) indicated that at least one of their four best friends was a regular smoker, while only 10.2% of the boys and 5.9% of the girls indicated that none of their four best friends smoked regularly, and as few as 2.2% of the boys and none of the girls said that none of their friends had even experimented with cigarettes. Nonsmokers showed exactly the opposite pattern. Only one-third (33.8% of boys, 32.9% of girls) said that one or more of their four best friends were regular smokers, while more than two-fifths (43.8% of boys, 44.1% of girls) said that no friend smoked regularly, and another one-fifth (22.4% of boys, 23.0% of girls) had no best friend who had even experimented. There is no question that smokers have friends who smoke, and nonsmokers have friends who do not smoke.

Working Practices

Boys as a group who worked either full time or part time had a higher smoking rate than those who did not (11.9% and 7.9%, respectively), except for boys 15 to 16. For that age group (15-16) boys who did not work had a higher smoking rate than those who did (18.8% and 11.6%, respectively). Among girls who worked, 18.3% smoked, compared with 6.8% of those who did not work. The direction of difference for all age groups of girls was uniform (Exhibit A-8).

Educational Aspirations

Teenagers who were in high school were asked whether they were enrolled in a college preparatory course or in some other course (Exhibit A-9). The majority, 58.6%, of the boys and 62.6% of the girls who responded stated that they were in a course that prepared them for college. The students were less likely to be smokers if they were in a college preparatory course than if they were in any other course. In fact, only half as many boys in the college preparatory curriculum were smokers as in any other curriculum (9.0% and 18.3%, respectively). Comparable percentages for girls were 12.0% and 20.1%.

Perception of the Health Threat

When asked the question, "Would you say cigarette smoking

is harmful to health?" almost all (96.4%) answered "yes." Only a few answered "no" (2.2%), and the remainder (1.4%) said they did not know. Even 91.6% of smokers replied that smoking is harmful to health. Only 17 of the 309 smokers said that smoking was not harmful to health.

Prediction of Future Smoking Behavior

When asked, "What would you say is the possibility that five years from now you will be a cigarette smoker?" the vast majority of nonsmokers (94.0%) answered either "definitely not" or "probably not" (Exhibit A-10, summarized in Exhibit 8). Smokers, however, split about 50-50 between answering either "definitely not" or "probably not" and answering either "definitely yes" or "probably yes."

These findings are consistent with the 1974 findings, except that the proportion who say that they will probably or definitely be smokers five years hence has decreased slightly. Among smokers it has gone from 51.5% to 49.6% for boys and from 52.3% to 47.6% for girls. Among nonsmokers, the decrease is from 7.0% to 4.7% for boys and from 8.7% to 6.1% for girls.

One possible consideration in determining whether or not a person will continue to smoke is the cost of cigarettes. Smokers were asked what they paid for a pack of cigarettes, then were asked if the price were increased to double that sum, how likely they would be to continue to smoke. Of those who expressed an opinion, 17.1% said that they would be either very likely or somewhat likely to continue to smoke, while 23.4% said that they were very unlikely to continue. The ma-

Exhibit 8

POSSIBILITY OF SMOKING FIVE YEARS HENCE

	Definitely Yes Probably Yes	Definitely Not Probably Not	Do Not Know
Boys			
Smokers	49.6	48.2	2.1
Nonsmokers	4.7	94.7	0.6
Girls			
Smokers	47.6	51.8	0.6
Nonsmokers	6.1	93.2	0.7
Total Smokers	48.5	50.2	1.3
Total Nonsmokers	5.4	94.0	0.6

jority, 59.5%, said that they would be somewhat unlikely to continue smoking. There does not appear to be any relationship between the price the smoker is currently paying for cigarettes and his perception of the change double the cost would make. (See Exhibit 9.) The 51 smokers who said that they would probably continue to smoke if the price were doubled were then given a number three times the price they are now paying and asked to speculate about the likelihood of smoking if cigarettes reached this price. Twelve of the 51, or 23.5%, said they would still be either very likely or somewhat likely to continue to smoke. Another 12 of the 51 said that they would be very unlikely to continue. If the speculations of these teenagers prove to be realistic, continued rises in the price of cigarettes may influence some to quit smoking.

Dynamics of Teenage Smoking

The first three surveys, 1968, 1970, and 1972, consisted primarily of descriptions of teenagers, and their families, in relation to their smoking practices. By 1974, research had progressed to the stage where it was possible to explore the dynamics of taking up smoking. Between the 1972 and 1974 surveys, a comprehensive study of how teenagers view smoking was conducted.[3] The study resulted in the identification of eight factors that may be described briefly as follows:

1. Concern with the effects of smoking on the health of the smoker.
2. Concern with the effects of smoking on the environment, including other people.
3. The psychological and sociological utility of smoking.
4. Rationalizations that allow the individual to smoke in the face of medical evidence.
5. Perceptions of reasons for beginning to smoke.
6. The stereotype of the smoker as being "bad."
7. Attitude toward control by parents and others in authority; need for autonomy.
8. The extent to which the individual has control over his destiny.

In the 1974 and 1979 surveys, each factor was measured by three attitude statements. They were arranged in such a way that no two statements related to the same area were placed next to each other in the questionnaire; they were in cyclical form, so that one item from each category was selected, and then another item from each category, etc. Respondents were read a statement, and asked whether they agreed with the statement, disagreed with the statement, or neither agreed nor disagreed with it. If the answer was "agree," the respondent was asked "Do you strongly agree or mildly agree?" The same procedure was followed to determine the extent of disagree-

[3] Milne, Ann M., and Colmen, Joseph G. Development of a teenagers' self-testing kit (cigarette smoking). Washington, D.C., Education and Public Affairs, July 1973, 100 pp.

Exhibit 9

QUESTION: If the cost of a pack of cigarettes were (double the amount respondent is now paying), would you be likely or unlikely to smoke cigarettes?

Present Cost Per Pack	Very Likely		Somewhat Likely		Somewhat Unlikely		Very Unlikely		No Opinion Don't Know	
	N	%	N	%	N	%	N	%	N	%
52¢ or less	5	*	8	29.6	30	16.9	11	15.7	0	*
53¢ - 57¢	0	*	2	7.4	23	12.9	8	11.4	2	*
58¢ - 62¢	5	*	2	7.4	30	16.9	20	28.6	3	*
63¢ - 67¢	7	*	8	29.6	40	22.5	15	21.4	2	*
68¢ - 72¢	2	*	5	18.5	26	14.6	7	10.0	0	*
73¢ - 77¢	4	*	0	0.0	20	11.2	6	8.6	0	*
78¢ or more	1	*	2	7.4	9	5.1	3	4.3	0	*
Total	24	*	27	99.9	178	100.1	70	100.0	7	*

BASE: All current regular smokers.

* Percentages not computed when N is less than 25.

ment. This resulted in a five-choice item for each statement.

Factor scores were obtained for each respondent for each of the eight groups of attitude statements by assigning 5 points for "strongly agree," 4 points for "mildly agree," 3 points for "neither agree nor disagree," 2 points for "mildly disagree," and 1 point for "strongly disagree." For some items that were stated negatively, the scoring was reversed, with a score of 5 assigned to "strongly disagree." An example is the statement, "There's nothing wrong with smoking cigarettes as long as you don't smoke too many."

The mean scores for both the 1974 and the 1979 samples are reported in Exhibit 10, and also in Appendix A, Exhibit A-11. Individual statements, along with the distributions of responses for the 1979 sample, are reported in Exhibit A-12.

The first group of items, which has been labeled Health, characterizes the extent to which the respondents have accepted the information about the relationship of smoking to health.

The mean score of 13 out of a possible 15 shows a very high level of acceptance of health information.

Exhibit 10

DYNAMICS OF TEENAGE SMOKING

Mean Factor Scores

	Boys						Girls					
	Nonsmokers		Smokers		Total		Nonsmokers		Smokers		Total	
	1974	1979	1974	1979	1974	1979	1974	1979	1974	1979	1974	1979
1. Health	13.21	13.46	11.74	12.26	12.98	13.33	13.17	13.47	11.94	12.63	12.94	13.36
2. Nonsmokers' Rights	12.41	13.22	9.30	10.06	11.92	12.88	12.76	13.28	9.70	10.69	12.25	12.95
3. Positive Aspects of Smoking	6.56	6.38	8.07	7.99	6.80	6.55	6.47	6.30	7.48	7.57	6.62	6.46
4. Rationalization	7.20	8.12	9.06	8.59	8.63	8.17	8.52	8.31	8.80	8.38	8.54	8.32
5. Stereotype of Smoking	9.08	9.16	7.00	7.01	8.75	8.93	8.78	8.89	6.29	6.43	8.39	8.58
6. Stereotype of Smoker	11.84	12.30	8.56	8.84	11.33	11.93	11.66	12.24	8.38	8.85	11.15	11.81
7. Feeling Toward Authority	10.99	11.15	10.26	10.67	10.87	11.10	11.34	11.44	10.56	10.76	11.21	11.35
8. Control of Future	12.91	13.15	11.95	11.92	12.75	13.02	13.17	13.42	12.17	12.26	13.00	13.27

As one would expect, nonsmokers are more likely to subscribe to the point of view that smoking is harmful than are smokers. However, even among smokers, nine out of ten agree that the health information about smoking is true and that smoking can harm the health of teenagers.

While the items in Factor 1 are concerned with the negative effects of smoking on the smoker, those in Factor 2 are concerned with the effects of smoking on others. Factor 2 has been labeled Nonsmokers' Rights. This factor shows a large difference between smokers and nonsmokers, with smokers tending to deny that their smoking may bother others. The item that most sharply differentiates the two groups is "Cigarette smoking should be forbidden inside public places," with almost three-fourths of the nonsmokers agreeing and about one-third of the smokers agreeing. The majority of smokers do realize that their smoking is a form of air pollution, as evidenced by the fact that 78.0% agree with the statement, "If I smoke around other people, I take away their right to breathe clean air."

Just as the first two factors measure the negative consequences of smoking, the third deals with the positive effects, and is called Positive Aspects of Smoking. The smokers, of course, are more likely to indicate that there are positive effects than are the nonsmokers. The statement that contributes most to the difference in means is "Smoking cigarettes gives you a good feeling." Fewer than one in ten nonsmokers believe that this can be true, while one in three smokers agree with the statement. Almost half (46.6%) of smokers agree that "People who smoke seem to be more at ease with others." Only 29.4% of nonsmokers agree with this statement.

While nearly all teenagers admit to health hazards in smoking, many of these teenagers smoke. How can they reconcile their knowledge with their behavior? Factor 4, Rationalization, contains some of the statements that teenagers use to rationalize their behavior. While the scores are relatively low, we find, as expected, that smokers agree with these statements more than do nonsmokers. The item in this set that most differentiates smokers and nonsmokers is "Teenagers who smoke regularly can quit for good any time they like," with 33.0% of smokers agreeing and 25.1% of nonsmokers agreeing. Smokers and nonsmokers alike tend to think that "It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit." Three out of five hold this opinion.

It has long been believed that the teenager starts to smoke for social reasons--to gain acceptance by and approval of his peers. Factor 5, Stereotype of Smoking, measures the teenager's perception of this stereotype. The nonsmoker tends to accept it as true, while the smoker tends to deny it. For example, twice as many nonsmokers as smokers say that "If you don't smoke cigarettes, other teenagers put you down." Nonsmokers are much more likely than smokers to think that teenagers start smoking to attract the opposite sex and to be more popular with their peers.

Just as there is a stereotype of teenage smoking, so is there a stereotype of the teenage smoker. Traditionally, he has been characterized as a "show-off" who thinks

smoking makes him look "cool" or "grown-up." Factor 6, Stereotype of Smoker, measures the extent to which teenagers subscribe to this stereotype. As one might expect, nonsmokers are much more likely than smokers to see the smoker in this negative way. More than twice as many nonsmokers as smokers, for example, see the teenage smoker as a "show-off."

On the surface, Factor 7, Feeling Toward Authority, has nothing to do with smoking. However, the teenager who smokes is more likely to indicate chafing under restrictions imposed by adults in control. The smoker is less likely to say that he likes turning to his parents for advice and more likely to say that he wishes he were older than he is now.

Factor 8, Control of Future, represents another concept that has no obvious relationship to smoking, but does have a subtle relationship to it. This factor measures the extent to which the teenager wishes to control what happens to him and the extent to which he thinks he can do so. While most teenagers have high scores on this group of items, the nonsmoker is likely to have the higher score. He is more likely to believe that he can control the kind of person he will become, and he is much more likely to say that he doesn't want to get hooked on anything, including cigarettes. Perhaps the smoker feels that he has already lost some of the control of his life that he might have had.

The scores obtained in the 1979 survey are similar to those obtained in 1974. The means in 1979 are slightly higher on the first two factors, Health and Nonsmokers' Rights.

I.4 DISCUSSION

The increasing prevalence of teenage smoking that was observed in the period between 1968 and 1974 has come to a halt, and a decrease in the smoking rates of both boys and girls has taken place. The decrease in boys' smoking was greater than that of girls, resulting in a higher smoking rate in 1979 for girls than for boys. Smoking among boys leveled off in the early 1970's, then began to decrease. It appears that girls may now be following this pattern: the smoking rate has leveled off among 17- and 18-year-olds and probably can be expected to decrease during the next few years, as evidenced by the decrease in smoking among 15- and 16-year-old girls.

Family patterns continue to influence the teenagers' smoking behavior. We have consistently found that the prevalence of teenage smoking is much lower in "intact" homes--where both a father and a mother are members of the household--than in homes where both are not present. The increase in the number of households in the latter category would lead one to expect the prevalence of teenage smoking to increase. However, the decrease in smoking in intact homes, particularly among boys, has served to offset this change. Most of the decrease in boys' smoking has, in fact, been in intact households. In these households, smoking among boys decreased from 15.1% in 1974 to 8.6% in 1979, while the decrease in other households was negligible--from 20.0% in 1974 to 19.3% in 1979. A similar phenomenon was seen in girls' smoking, but the differences were not so dramatic. In the period 1974-1979, smoking in intact households decreased from 13.4% to 10.7%, while in other households it decreased only from 23.4% to 21.2%.

Smoking practices of other family members, both parents and older siblings, exert a great deal of influence on the teenager. If both a parent and an older sibling smoke, the chances of the teenager smoking are almost one in five, in contrast to the household where neither parent nor older sibling smokes, where chances of the teenager being a smoker are less than one in twenty.

The educational level of the parents continues to be related to the smoking behavior of the child, but in the 1979 survey the relationship is not so clearcut as it was in earlier studies. The smoking of the teenager reflects the smoking of the parents. In general, adults (parents) with the highest educational levels were the first to quit smoking, with those at successively lower educational levels quitting later. As the smoking rates of adults tend to become more uniform--that is, more and more adults, regardless of educational level, have stopped smoking--it is natural to assume that correlations between teenage smoking rates and parental education will be lower. However, the educational aspirations of the teenagers themselves continue to be important--those who plan to go to college have lower smoking rates than those who do not plan to do so.

Adolescents who smoke have friends who smoke, and those who do not smoke apparently associate with nonsmokers. That fact has often been cited as evidence for the contention that teenagers smoke be-

cause of "peer pressure." That is probably true when the group that the teenager sees himself as a member of--or would like to be a member of--embraces a life-style that includes smoking as a norm. Such a life-style sometimes includes use of marijuana, alcohol, and even stronger drugs.[4] On the other hand, the teenager who identifies with a group that normally does not engage in those activities is likely to feel little or no peer pressure to smoke cigarettes. That is simply confirmation of the often-observed phenomenon that people who have common interests and common goals tend to associate with each other.

Teenagers are well aware of the threat of smoking to health; those who have not already started to smoke do not intend to do so, and half of those who have started smoking do not intend to continue to do so.

A study of the attitudes of teenagers confirms their acceptance of the threat to health associated with smoking, and they are also aware of and sympathetic to the rights of the nonsmoker. At the same time, they tend to believe that it is all right for teenagers to experiment with smoking so long as they don't get hooked. The problem is that some teenagers experiment long enough to find it very difficult to give up cigarettes.

Teenage smokers do not believe that the stereotypes of smoking and of smokers are realistic. They do not think that teenagers start smoking to become socially acceptable, nor do they hold with the negative stereotype of the teenage smoker.

In general, teenagers have positive attitudes toward those in authority. They care about their futures and want to be able to be in control of themselves so that they can become the persons they want to be--and they have confidence that they can do so.

The survey findings point to characteristics of teenagers and their environments that are related to smoking. Some of these cannot be changed--household composition, educational level of parents. Others can be changed. The smoking practices of parents, for example, can be a target for change. Attitudes of teenagers toward themselves, toward what they can become, are subject to change. Teenagers can be warned of the dangers of getting hooked through experimentation.

Some things do not need to be changed. The necessity to inform young people that smoking can have deleterious effects on health no longer exists. Rather, the need to teach them the specific effects of smoking on the human body is now essential.

The message in the 1979 data about the drop in teenage smoking is an encouraging one. The sooner the teenager is made aware of it, the sooner it will be possible to dispel the popular misconception that "everybody smokes." Once the knowledge that only a very small

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[4] National Survey on Drug Abuse, 1977. Washington, D.C., U.S. Department of Health, Education, and Welfare, Public Health Service, Alcohol, Drug Abuse, and Mental Health Administration, National Institute on Drug Abuse.

minority of young people are smokers becomes widespread, it will no longer be necessary for the teenager to feel that he is a little different if he doesn't try cigarettes. He will be free of the compulsion to prove himself by lighting a cigarette.

We have every confidence that, as the positive influences deterring teenagers from smoking continue and grow, teenagers will, with increasing frequency, more fully understand and appreciate the problem of cigarettes as a potential factor in their lives and the need to consider realistically and objectively how they, as individuals, will deal with it.

APPENDIX A

Exhibits A-1 to A-12

Exhibit A-1

SUMMARY OF TEENAGE SMOKING

	Boys								Girls							
	12,13,14		15,16		17,18		Total		12,13,14		15,16		17,18		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only																
1974	496	90.7	253	69.5	202	55.3	951	74.4	495	90.2	250	69.3	228	62.1	973	76.2
1979	527	92.8	284	75.3	254	68.1	1065	80.8	514	92.3	319	81.8	239	63.9	1072	81.2
Ex-Smoker																
1974	28	5.1	45	12.4	44	12.1	117	9.2	26	4.7	33	9.1	42	11.4	101	7.9
1979	23	4.0	38	10.1	46	12.3	107	8.1	19	3.4	23	5.9	34	9.1	76	5.8
Current Occasional Smoker																
1974	0	0.0	0	0.0	6	1.6	6	0.5	1	0.2	5	1.4	2	0.5	8	0.6
1979	0	0.0	4	1.1	1	0.3	5	0.4	0	0.0	2	0.5	3	0.8	5	0.4
Current Regular Smoker (Weekly and Daily)																
1974	23	4.2	66	18.1	113	30.9	202	15.8	27	4.9	73	20.3	95	25.9	195	15.3
1979	18	3.2	51	13.5	72	19.3	141	10.7	24	4.3	46	11.8	98	26.2	168	12.7
Current Regular Smoker (Weekly)																
1974	4	0.7	8	2.2	7	1.9	19	1.5	4	0.7	6	1.7	7	1.9	17	1.3
1979	5	0.9	4	1.1	7	1.9	16	1.2	2	0.4	3	0.8	7	1.9	12	0.9

Exhibit A-1 (Cont.)

SUMMARY OF TEENAGE SMOKING

	Boys								Girls							
	12,13,14		15,16		17,18		Total		12,13,14		15,16		17,18		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Current Regular Smoker (Daily)																
1974	19	3.5	58	15.9	106	29.0	183	14.3	23	4.2	67	18.6	88	24.0	178	14.0
1979	13	2.3	47	12.5	65	17.4	125	9.5	22	3.9	43	11.0	91	24.3	156	11.8
1-4 per day																
1974	7	1.3	5	1.4	12	3.2	24	1.9	13	2.4	18	5.0	11	3.0	42	3.3
1979	4	0.7	7	1.9	6	1.6	17	1.3	8	1.4	12	3.1	12	3.2	32	2.4
5-9 per day																
1974	2	0.4	13	3.6	9	2.5	24	1.9	4	0.7	9	2.5	13	3.6	26	2.1
1979	2	0.4	13	3.4	10	2.7	25	1.9	7	1.3	5	1.3	20	5.3	32	2.4
10+ per day																
1974	10	1.8	40	10.9	85	23.3	135	10.5	6	1.1	40	11.1	64	17.4	110	8.6
1979	7	1.2	26	6.9	49	13.1	82	6.2	7	1.2	26	6.7	59	15.8	92	7.0
N.S.																
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	1	0.3	0	0.0	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
Total																
1974	547	100.0	364	100.0	365	99.9	1276	99.9	549	100.0	361	100.1	367	99.9	1277	100.0
1979	568	100.0	377	100.0	373	100.0	1318	100.0	557	100.0	390	100.0	374	100.0	1321	100.0

Oct 35

Exhibit A-2

TEENAGE SMOKING AND FAMILY STRUCTURE

BOYS

	12,13,14				15,16				17,18				Total			
	Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only																
1974	418	90.1	78	94.0	220	70.1	33	66.0	178	56.9	24	46.2	816	74.8	135	73.0
1979	439	93.2	88	90.7	246	78.6	38	59.4	200	71.4	54	58.1	885	83.2	180	70.9
Ex-Smoker																
1974	25	5.4	3	3.6	41	13.1	4	8.0	39	12.5	5	9.6	105	9.6	12	6.5
1979	21	4.5	2	2.1	30	9.6	8	12.5	33	11.8	13	14.0	84	7.9	23	9.1
Current Occasional Smoker																
1974	0	0.0	0	0.0	0	0.0	0	0.0	5	1.6	1	1.9	5	0.5	1	0.5
1979	0	0.0	0	0.0	2	0.6	2	3.1	1	0.4	0	0.0	3	0.3	2	0.8
Current Regular Smoker (Weekly and Daily)																
1974	21	4.5	2	2.4	53	16.9	13	26.0	91	29.1	22	42.3	165	15.1	37	20.0
1979	11	2.3	7	7.2	35	11.2	16	25.0	46	16.4	26	28.0	92	8.6	49	19.3
Current (Weekly)																
1974	4	0.9	0	0.0	7	2.2	1	2.0	7	2.2	0	0.0	18	1.6	1	0.5
1979	4	0.8	1	1.0	1	0.3	3	4.7	5	1.8	2	2.2	10	0.9	6	2.4
Current (Daily)																
1974	17	3.7	2	2.4	46	14.6	12	24.0	84	26.8	22	42.3	147	13.5	36	19.5
1979	7	1.5	6	6.2	34	10.9	13	20.3	41	14.6	24	25.8	82	7.7	43	16.9
Total																
1974	464	100.1	83	100.0	314	100.0	50	100.0	313	100.0	52	100.0	1091	100.0	185	100.0
1979	471	100.0	97	100.0	313	100.0	64	100.0	280	100.0	93	100.0	1064	100.0	254	100.0

Exhibit A-2 (Cont.)

TEENAGE SMOKING AND FAMILY STRUCTURE

GIRLS

	12,13,14				15,16				17,18				Total			
	Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home		Both Parents Present in Home		Both Parents Not Present in Home	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only																
1974	420	90.1	75	90.4	217	74.8	33	46.5	181	64.2	47	55.3	818	78.8	155	64.9
1979	432	93.3	82	87.2	258	82.4	61	79.2	196	67.6	43	51.2	886	83.1	186	72.9
Ex-Smoker																
1974	22	4.7	4	4.8	19	6.6	14	19.7	35	12.4	7	8.2	76	7.3	25	10.5
1979	16	3.5	3	3.2	18	5.8	5	6.5	29	10.0	5	6.0	63	5.9	13	5.1
Current Occasional Smoker																
1974	1	0.2	0	0.0	3	1.0	2	2.8	1	0.4	1	1.2	5	0.5	3	1.3
1979	0	0.0	0	0.0	2	0.6	0	0.0	1	0.3	2	2.4	3	0.3	2	0.8
Current Regular Smoker (Weekly and Daily)																
1974	23	4.9	4	4.8	51	17.6	22	31.0	65	23.0	30	35.3	139	13.4	56	23.4
1979	15	3.2	9	9.6	35	11.2	11	14.3	64	22.1	34	40.5	114	10.7	54	21.2
Current (Weekly)																
1974	4	0.9	0	0.0	3	1.0	3	4.2	5	1.8	2	2.4	12	1.2	5	2.1
1979	1	0.2	1	1.1	2	0.6	1	1.3	6	2.1	1	1.2	9	0.8	3	1.2
Current (Daily)																
1974	19	4.1	4	4.8	48	16.6	19	26.8	60	21.3	28	32.9	127	12.2	51	21.3
1979	14	3.0	8	8.5	33	10.5	10	13.0	58	20.0	33	39.3	105	9.8	51	20.0
Total																
1974	466	100.0	83	100.0	290	100.0	71	100.0	282	100.1	85	100.0	1038	00.0	239	100.1
1979	463	100.0	94	100.0	313	100.0	77	100.0	290	100.0	84	100.0	1066	100.0	255	100.0

Exhibit A-3

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
12,13,14

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	92	89.3	89	84.8	62	83.8	27	87.1	60	92.3	26	96.3	34	89.5
1979	96	94.1	104	92.0	61	89.7	35	94.6	64	90.1	29	93.5	34	87.2
Ex-Smoker														
1974	6	5.8	5	4.8	5	6.8	0	0.0	5	7.7	1	3.7	4	10.5
1979	2	2.0	6	5.3	5	7.4	1	2.7	4	5.6	1	3.2	3	7.7
Current Occasional Smoker														
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)														
1974	5	4.9	11	10.5	7	9.5	4	12.9	0	0.0	0	0.0	0	0.0
1979	4	3.9	3	2.7	2	2.9	1	2.7	3	4.2	1	3.2	2	5.1
Current (Weekly)														
1974	1	1.0	1	1.0	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0
1979	1	1.0	1	0.9	1	1.5	0	0.0	2	2.8	1	3.2	1	2.6
Current (Daily)														
1974	4	3.9	10	9.5	6	8.1	4	12.9	0	0.0	0	0.0	0	0.0
1979	3	2.9	2	1.8	1	1.5	1	2.7	1	1.4	0	0.0	1	2.6
Total														
1974	103	100.0	105	100.1	74	100.1	31	100.0	65	100.0	27	100.0	38	100.0
1979	102	100.0	113	100.0	68	100.0	37	100.0	71	100.0	31	100.0	39	100.0

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
12,13,14

	Neither Current Smoker										Either Father or Mother Not Specified	
	Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	156	92.3	37	94.9	40	93.0	10	*	69	92.0	21	*
1979	175	94.6	32	88.9	42	93.3	14	*	76	96.2	20	*
Ex-Smoker												
1974	9	5.3	1	2.6	3	7.0	2	*	3	4.0	1	*
1979	9	4.9	4	11.1	3	6.7	0	*	2	2.5	0	*
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*
1979	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)												
1974	4	2.4	1	2.6	0	0.0	0	*	3	4.0	0	*
1979	1	0.5	0	0.0	0	0.0	0	*	1	1.3	0	*
Current (Weekly)												
1974	2	1.2	0	0.0	0	0.0	0	*	2	2.7	0	*
1979	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*
Current (Daily)												
1974	2	1.2	1	2.6	0	0.0	0	*	1	1.3	0	*
1979	1	0.5	0	0.0	0	0.0	0	*	1	1.3	0	*
Total												
1974	169	100.0	39	100.1	43	100.0	12	*	75	100.0	22	*
1979	185	100.0	36	100.0	45	100.0	14	*	79	100.0	20	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
15,16

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	42	60.9	44	72.1	29	70.7	15	*	28	65.1	9	*	19	73.1
1979	53	70.7	49	70.0	27	75.0	17	60.7	41	80.4	15	*	25	80.6
Ex-Smoker														
1974	11	15.9	7	11.5	4	9.8	3	*	6	14.0	5	*	1	3.8
1979	6	8.0	11	15.7	4	11.1	6	21.4	6	11.8	3	*	3	9.7
Current Occasional Smoker														
1974	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*	0	0.0
1979	0	0.0	1	1.4	0	0.0	1	3.6	1	2.0	0	*	1	3.2
Current Regular Smoker (Weekly and Daily)														
1974	16	23.2	10	16.4	8	19.5	2	*	9	20.9	3	*	6	23.1
1979	16	21.3	9	12.9	5	13.9	4	14.3	3	5.9	1	*	2	6.5
Current (Weekly)														
1974	2	2.9	3	4.9	3	7.3	0	*	1	2.3	0	*	1	3.8
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	*	0	0.0
Current (Daily)														
1974	14	20.3	7	11.5	5	12.2	2	*	8	18.6	3	*	5	19.2
1979	16	21.3	9	12.9	5	13.9	4	14.3	3	5.9	1	*	2	6.5
Total														
1974	69	100.0	61	100.0	41	100.0	20	*	43	100.0	17	*	26	99.9
1979	75	100.0	70	100.0	36	100.0	28	100.0	51	100.0	19	*	31	100.0

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
15,16

		Neither Current Smoker										Either Father or Mother Not Specified	
		Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
		N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only	1974	97	75.2	15	*	34	66.7	11	*	37	86.0	9	*
	1979	103	88.0	18	*	25	78.1	8	*	48	98.0	10	*
Ex-Smoker	1974	16	12.4	3	*	7	13.7	2	*	4	9.3	1	*
	1979	7	6.0	2	*	4	12.5	0	*	0	0.0	2	*
Current Occasional Smoker	1974	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
	1979	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)	1974	16	12.4	4	*	10	19.6	0	*	2	4.7	2	*
	1979	7	6.0	2	*	3	9.4	1	*	1	2.0	0	*
Current (Weekly)	1974	1	0.8	0	*	1	2.0	0	*	0	0.0	0	*
	1979	1	0.9	1	*	0	0.0	0	*	0	0.0	0	*
Current (Daily)	1974	15	11.6	4	*	9	17.6	0	*	2	4.7	2	*
	1979	6	5.1	1	*	3	9.4	1	*	1	2.0	0	*
Total	1974	129	100.0	22	*	51	100.0	13	*	43	100.0	12	*
	1979	117	100.0	22	*	32	100.0	9	*	49	100.0	12	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
17,18

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	40	49.4	34	54.0	23	53.5	11	*	20	54.1	6	*	14	53.8
1979	40	66.7	39	73.6	26	72.2	11	*	22	56.4	11	*	11	*
Ex-Smoker														
1974	5	6.2	12	19.0	8	18.6	4	*	5	13.5	2	*	3	11.5
1979	8	13.3	6	11.3	5	13.9	1	*	6	15.4	4	*	2	*
Current Occasional Smoker	1	1.2	2	3.2	2	4.7	0	*	1	2.7	1	*	0	0.0
1974	0	0.0	0	0.0	0	0.0	0	*	1	2.6	0	*	1	*
1979														
Current Regular Smoker (Weekly and Daily)														
1974	35	43.2	15	23.8	10	23.3	5	*	11	29.7	2	*	9	34.6
1979	12	20.0	8	15.1	5	13.9	2	*	10	25.6	3	*	7	*
Current (Weekly)														
1974	2	2.5	0	0.0	0	0.0	0	*	1	2.7	0	*	1	3.8
1979	1	1.7	2	3.8	0	0.0	1	*	0	0.0	0	*	0	*
Current (Daily)														
1974	33	40.7	15	23.8	10	23.3	5	*	10	27.0	2	*	8	30.8
1979	11	18.3	6	11.3	5	13.9	1	*	10	25.6	3	*	7	*
Total														
1974	81	100.0	63	100.0	43	100.1	20	*	37	100.0	11	*	26	99.9
1979	60	100.0	53	100.0	36	100.0	14	*	39	100.0	18	*	21	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
17,18

	Neither Current Smoker										Either Father or Mother Not Specified	
	Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	72	61.5	13	*	24	55.8	9	*	26	65.0	12	*
1979	98	77.2	15	*	26	72.2	10	*	45	76.3	5	*
Ex-Smoker												
1974	17	14.5	3	*	8	18.6	1	*	5	12.5	0	*
1979	13	10.2	3	*	5	13.9	1	*	4	6.8	0	*
Current Occasional Smoker												
1974	1	0.9	0	*	1	2.3	0	*	0	0.0	0	*
1979	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)												
1974	27	23.1	8	*	10	23.3	0	*	9	22.5	3	*
1979	16	12.6	1	*	5	13.9	0	*	10	16.9	1	*
Current (Weekly)												
1974	3	2.6	1	*	0	0.0	0	*	2	5.0	1	*
1979	2	1.6	1	*	1	2.8	0	*	0	0.0	1	*
Current (Daily)												
1974	24	20.5	7	*	10	23.3	0	*	7	17.5	2	*
1979	14	11.0	0	*	4	11.1	0	*	10	16.9	0	*
Total												
1974	117	100.0	24	*	43	100.0	10	*	40	100.0	15	*
1979	127	100.0	19	*	36	100.0	11	*	59	100.0	7	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
TOTAL

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	174	68.8	167	72.9	114	72.2	53	74.6	108	74.5	41	74.5	67	74.4
1979	189	79.7	192	81.4	114	81.4	63	79.7	127	78.9	55	80.9	70	76.9
Ex-Smoker														
1974	22	8.7	24	10.5	17	10.8	7	9.9	16	11.0	8	14.5	8	8.9
1979	16	6.8	23	9.7	14	10.0	8	10.1	16	9.9	8	11.8	8	8.8
Current Occasional Smoker														
1974	1	0.4	2	0.9	2	1.3	0	0.0	1	0.7	1	1.8	0	0.0
1979	0	0.0	1	0.4	0	0.0	1	1.3	2	1.2	0	0.0	2	2.2
Current Regular Smoker (Weekly and Daily)														
1974	56	22.1	36	15.7	25	15.8	11	15.5	20	13.8	5	9.1	15	16.7
1979	32	13.5	20	8.5	12	8.6	7	8.9	16	9.9	5	7.4	11	12.1
Current (Weekly)														
1974	5	2.0	4	1.7	4	2.5	0	0.0	2	1.4	0	0.0	2	2.2
1979	2	0.8	3	1.3	1	0.7	1	1.3	2	1.2	1	1.5	1	1.1
Current (Daily)														
1974	51	20.2	32	14.0	21	13.3	11	15.5	18	12.4	5	9.1	13	14.4
1979	30	12.7	17	7.2	11	7.9	6	7.6	14	8.7	4	5.9	10	11.0
Total														
1974	253	100.1	229	100.0	158	100.1	71	100.0	145	100.0	55	99.9	90	99.9
1979	237	100.0	236	100.0	140	100.0	79	100.0	161	100.0	68	100.0	91	100.0

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

BOYS
TOTAL

	Neither Current Smoker										Either Father or Mother Not Specified	
	Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	325	78.3	65	76.5	98	71.5	30	85.7	132	83.5	42	85.7
1979	376	87.6	65	84.4	93	82.3	32	94.1	169	90.4	34	89.5
Ex-Smoker												
1974	42	10.1	7	8.2	18	13.1	5	14.3	12	7.6	2	4.1
1979	29	6.8	9	11.7	12	10.6	1	2.9	6	3.2	2	5.3
Current Occasional Smoker												
1974	1	0.2	0	0.0	1	0.7	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	47	11.3	13	15.3	20	14.6	0	0.0	14	8.9	5	10.2
1979	24	5.6	3	3.9	8	7.1	1	2.9	12	6.4	1	2.6
Current (Weekly)												
1974	6	1.4	1	1.2	1	0.7	0	0.0	4	2.5	1	2.0
1979	3	0.7	2	2.6	1	0.9	0	0.0	0	0.0	1	2.6
Current (Daily)												
1974	41	9.9	12	14.1	19	13.9	0	0.0	10	6.3	4	8.2
1979	21	4.9	1	1.3	7	6.2	1	2.9	12	6.4	0	0.0
Total												
1974	415	99.9	85	100.0	137	99.9	35	100.0	158	99.9	49	100.0
1979	429	100.0	77	100.0	113	100.0	34	100.0	187	100.0	38	100.0

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
12,13,14

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	96	84.2	86	89.6	57	93.4	29	82.9	51	86.4	22	*	29	82.9
1979	110	92.4	84	90.3	44	91.7	32	86.5	57	93.4	23	92.0	32	94.1
Ex-Smoker														
1974	8	7.0	4	4.2	0	0.0	4	11.4	3	5.1	2	*	1	2.9
1979	3	2.5	5	5.4	2	4.2	3	8.1	2	3.3	1	4.0	1	2.9
Current Occasional Smoker														
1974	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	*	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)														
1974	9	7.9	6	6.3	4	6.6	2	5.7	5	8.5	0	*	5	14.3
1979	6	5.0	4	4.3	2	4.2	2	5.4	2	3.3	1	4.0	1	2.9
Current (Weekly)														
1974	2	1.8	1	1.0	0	0.0	1	2.9	1	1.7	0	*	1	2.9
1979	0	0.0	0	0.0	0	0.0	0	0.0	1	1.6	0	0.0	1	2.9
Current (Daily)														
1974	7	6.1	5	5.2	4	6.6	1	2.9	4	6.8	0	*	4	11.4
1979	6	5.0	4	4.3	2	4.2	2	5.4	1	1.6	1	4.0	0	0.0
Total														
1974	114	100.0	96	100.0	61	100.0	35	100.1	59	100.0	24	*	35	100.1
1979	119	100.0	93	100.0	48	100.0	37	100.0	61	100.0	25	100.0	34	100.0

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
12,13,14

	Total		Neither Current Smoker								Either Father or Mother Not Specified	
			Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	168	94.4	23	*	49	89.1	18	*	78	96.3	19	*
1979	181	95.3	28	93.3	47	92.2	28	93.3	70	98.6	18	*
Ex-Smoker												
1974	7	3.9	0	*	4	7.3	1	*	2	2.5	0	*
1979	6	3.2	1	3.3	4	7.8	0	0.0	1	1.4	0	*
Current Occasional Smoker	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	*
1979												
Current Regular Smoker (Weekly and Daily)												
1974	3	1.7	0	*	2	3.6	0	*	1	1.2	0	*
1979	3	1.6	1	3.3	0	0.0	2	6.7	0	0.0	0	*
Current (Weekly)												
1974	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	*
Current (Daily)												
1974	3	1.7	0	*	2	3.6	0	*	1	1.2	0	*
1979	3	1.6	1	3.3	0	0.0	2	6.7	0	0.0	0	*
Total												
1974	178	100.0	23	*	55	100.0	19	*	81	100.0	19	*
1979	190	100.0	30	100.0	51	100.0	30	100.0	71	100.0	18	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
15,16

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	40	56.3	44	73.3	35	77.8	9	*	27	75.0	15	*	12	*
1979	53	76.8	56	82.4	36	87.8	16	*	37	84.1	12	*	23	79.3
Ex-Smoker														
1974	6	8.5	4	6.7	3	6.7	1	*	2	5.6	0	*	2	*
1979	3	4.3	4	5.9	2	4.9	2	*	1	2.3	0	*	1	3.4
Current Occasional Smoker														
1974	1	1.4	1	1.7	1	2.2	0	*	0	0.0	0	*	0	*
1979	1	1.4	0	0.0	0	0.0	0	*	0	0.0	0	*	0	0.0
Current Regular Smoker (Weekly and Daily)														
1974	24	33.8	11	18.3	6	13.3	5	*	7	19.4	2	*	5	*
1979	12	17.4	8	11.8	3	7.3	5	*	6	13.6	1	*	5	17.2
Current (Weekly)														
1974	1	1.4	0	0.0	0	0.0	0	*	2	5.6	1	*	1	*
1979	0	0.0	0	0.0	0	0.0	0	*	1	2.3	0	*	1	3.4
Current (Daily)														
1974	23	32.4	11	18.3	6	13.3	5	*	5	13.9	1	*	4	*
1979	12	17.4	8	11.8	3	7.3	5	*	5	11.4	1	*	4	13.8
Total														
1974	71	100.0	60	100.0	45	100.0	15	*	36	100.1	17	*	19	*
1979	69	100.0	68	100.0	41	100.0	23	*	44	100.0	13	*	29	100.0

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
15,16

	Neither Current Smoker										Either Father or Mother Not Specified	
	Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or experimented Only												
1974	97	85.8	14	*	28	80.0	12	*	43	89.6	9	*
1979	112	84.8	14	*	29	87.9	9	*	54	85.7	12	*
Ex-Smoker												
1974	7	6.2	0	*	4	11.4	2	*	1	2.1	1	*
1979	10	7.6	2	*	1	3.0	2	*	5	7.9	0	*
Current Occasional Smoker												
1974	1	0.9	0	*	0	0.0	0	*	1	2.1	0	*
1979	1	0.8	0	*	0	0.0	0	*	1	1.6	0	*
Current Regular Smoker (Weekly and Daily)												
1974	8	7.1	2	*	3	8.6	0	*	3	6.3	0	*
1979	9	6.8	2	*	3	9.1	1	*	3	4.8	0	*
Current (Weekly)												
1974	0	0.0	0	*	0	0.0	0	*	0	0.0	0	*
1979	1	0.8	0	*	0	0.0	0	*	1	1.6	0	*
Current (Daily)												
1974	8	7.1	2	*	3	8.6	0	*	3	6.2	0	*
1979	8	6.1	2	*	3	9.1	1	*	2	3.2	0	*
Total												
1974	113	100.0	16	*	35	100.0	14	*	48	100.0	10	*
1979	132	100.0	18	*	33	100.0	12	*	63	100.0	12	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
17,18

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	45	59.2	34	68.0	23	65.7	11	*	19	52.8	4	*	15	55.6
1979	33	57.9	51	66.2	34	63.0	13	*	20	58.8	8	*	12	*
Ex-Smoker														
1974	10	13.2	5	10.0	3	8.6	2	*	6	16.7	1	*	5	18.5
1979	5	8.8	9	11.7	7	13.0	2	*	3	8.8	0	*	3	*
Current Occasional Smoker														
1974	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	*	0	0.0	0	*	0	*
Current Regular Smoker (Weekly and Daily)														
1974	21	27.6	11	22.0	9	25.7	2	*	11	30.6	4	*	7	25.9
1979	19	33.3	17	22.1	13	24.1	4	*	11	32.4	6	*	5	*
Current (Weekly)														
1974	2	2.6	1	2.0	1	2.9	0	*	1	2.8	0	*	1	3.7
1979	2	3.5	1	1.3	1	1.9	0	*	1	2.9	1	*	0	*
Current (Daily)														
1974	19	25.0	10	20.0	8	22.9	2	*	10	27.8	4	*	6	22.2
1979	17	29.8	16	20.8	12	22.2	4	*	10	29.4	5	*	5	*
Total														
1974	76	100.0	50	100.0	35	100.1	15	*	36	100.1	9	*	27	100.0
1979	57	100.0	77	100.0	54	100.0	19	*	34	100.0	14	*	20	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
17,18

	Neither Current Smoker										Either Father or Mother Not Specified	
	Total		Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	79	69.9	12	*	20	58.8	9	*	38	79.2	4	*
1979	92	75.4	13	*	30	66.7	12	*	33	76.7	8	*
Ex-Smoker												
1974	13	11.5	3	*	5	14.7	1	*	4	8.3	1	*
1979	12	9.8	2	*	6	13.3	1	*	3	7.0	0	*
Current Occasional Smoker												
1974	1	0.9	1	*	0	0.0	0	*	0	0.0	0	*
1979	1	0.8	0	*	0	0.0	0	*	1	2.3	0	*
Current Regular Smoker (Weekly and Daily)												
1974	20	17.7	3	*	9	26.5	2	*	6	12.5	2	*
1979	17	13.9	1	*	9	20.0	1	*	6	14.0	0	*
Current (Weekly)												
1974	1	0.9	0	*	0	0.0	0	*	1	2.1	0	*
1979	2	1.6	0	*	1	2.2	0	*	1	2.3	0	*
Current (Daily)												
1974	19	16.8	3	*	9	26.5	2	*	5	10.4	2	*
1979	15	12.3	1	*	8	17.8	1	*	5	11.6	0	*
Total												
1974	113	100.0	19	*	34	100.0	12	*	48	100.0	7	*
1979	122	100.0	16	*	45	100.0	14	*	43	100.0	8	*

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
TOTAL

	Both Current Smokers		Only Father Current Smoker						Only Mother Current Smoker					
			Total		Mother Never Smoked		Mother Ex-Smoker		Total		Father Never Smoked		Father Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only														
1974	181	69.3	164	79.6	115	81.6	49	75.4	97	74.0	41	82.0	56	69.1
1979	196	80.0	191	80.3	114	79.7	61	77.2	114	82.0	43	82.7	67	80.7
Ex-Smoker														
1974	24	9.2	13	6.3	6	4.3	7	10.8	11	8.4	3	6.0	8	9.9
1979	11	4.5	18	7.6	11	7.7	7	8.9	6	4.3	1	1.9	5	6.0
Current Occasional Smoker														
1974	2	0.8	1	0.5	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0
1979	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)														
1974	54	20.7	28	13.6	19	13.5	9	13.8	23	17.6	6	12.0	17	21.0
1979	37	15.1	29	12.2	18	12.6	11	13.9	19	13.7	8	15.4	11	13.3
Current (Weekly)														
1974	5	1.9	2	1.0	1	0.7	1	1.5	4	3.1	1	2.0	3	3.7
1979	2	0.8	1	0.4	1	0.7	0	0.0	3	2.2	1	1.9	2	2.4
Current (Daily)														
1974	49	18.8	26	12.6	18	12.8	8	12.3	19	14.5	5	10.0	14	17.3
1979	35	14.3	28	11.8	17	11.9	11	13.9	16	11.5	7	13.5	9	10.8
Total														
1974	261	100.0	206	100.0	141	100.1	65	100.0	131	100.0	50	100.0	81	100.0
1979	245	100.0	238	100.0	143	100.0	79	100.0	139	100.0	52	100.0	83	100.0

* Percentages not computed when N is less than 25.

Exhibit A-3 (Cont.)

PARENTAL SMOKING HABITS

(Both Parents Present)

GIRLS
TOTAL

	Total		Neither Current Smoker								Either Father or Mother Not Specified	
			Both Ex-Smokers		Father Ex-Smoker Mother Never		Mother Ex-Smoker Father Never		Both Never Smoked			
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	344	85.1	49	84.5	97	78.2	39	86.7	159	89.8	32	88.9
1979	385	86.7	55	85.9	106	82.2	49	87.5	157	88.7	38	100.0
Ex-Smoker												
1974	27	6.7	3	5.2	13	10.5	4	8.9	7	4.0	2	5.6
1979	28	6.3	5	7.8	11	8.5	3	5.4	9	5.1	0	0.0
Current Occasional Smoker												
1974	2	0.5	1	1.7	0	0.0	0	0.0	1	0.6	0	0.0
1979	2	0.5	0	0.0	0	0.0	0	0.0	2	1.1	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	31	7.7	5	8.6	14	11.3	2	4.4	10	5.6	2	5.6
1979	29	6.5	4	6.3	12	9.3	4	7.1	9	5.1	0	0.0
Current (Weekly)												
1974	1	0.2	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0
1979	3	0.7	0	0.0	1	0.8	0	0.0	2	1.1	0	0.0
Current (Daily)												
1974	30	7.4	5	8.6	14	11.3	2	4.4	9	5.1	2	5.6
1979	26	5.9	4	6.3	11	8.5	4	7.1	7	4.0	0	0.0
Total												
1974	404	99.9	58	100.0	124	100.0	45	100.0	177	100.1	36	100.1
1979	444	100.0	64	100.0	129	100.0	56	100.0	177	100.0	38	100.0

* Percentages not computed when N is less than 25.

Exhibit A-4

OLDER SIBLING SMOKING HABITS

BOYS
12,13,14

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	194	93.3	32	84.2	56	91.8	14	*	69	90.8
1979	251	96.2	22	84.6	63	92.6	14	*	54	93.1
Ex-Smoker										
1974	9	4.3	2	5.3	2	3.3	0	*	6	7.9
1979	3	1.1	2	7.7	3	4.4	1	*	3	5.2
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	*	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	*	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	5	2.4	4	10.5	3	4.9	1	*	1	1.3
1979	7	2.7	2	7.7	2	2.9	3	*	1	1.7
Current (Weekly)										
1974	1	0.5	0	0.0	1	1.6	0	*	0	0.0
1979	2	0.8	0	0.0	1	1.5	2	*	0	0.0
Current (Daily)										
1974	4	1.9	4	10.5	2	3.3	1	*	1	1.3
1979	5	1.9	2	7.7	1	1.5	1	*	1	1.7
Total										
1974	208	100.0	38	100.0	61	100.0	15	*	76	100.0
1979	261	100.0	26	100.0	68	100.0	18	*	58	100.0

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
12,13,14

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only 1974	27	87.1	8	*	18	72.0	52	96.3	26	89.7
1979	25	96.2	16	*	23	74.2	48	98.0	9	*
Ex-Smoker										
1974	2	6.5	1	*	2	8.0	2	3.7	2	6.9
1979	1	3.8	3	*	6	19.4	1	2.0	0	*
Current Occasional Smoker										
1974	0	0.0	0	*	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	*	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	2	6.5	1	*	5	20.0	0	0.0	1	3.4
1979	0	0.0	0	*	2	6.5	0	0.0	1	*
Current (Weekly)										
1974	0	0.0	0	*	2	8.0	0	0.0	0	0.0
1979	0	0.0	0	*	0	0.0	0	0.0	0	*
Current (Daily)										
1974	2	6.5	1	*	3	12.0	0	0.0	1	3.4
1979	0	0.0	0	*	2	6.5	0	0.0	1	*
Total										
1974	31	100.1	10	*	25	100.0	54	100.0	29	100.0
1979	26	100.0	19	*	31	100.0	49	100.0	10	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
15,16

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	97	73.5	15	53.6	34	85.0	9	33.3	28	68.3
1979	98	79.0	18	54.5	33	80.5	11	*	40	90.9
Ex-Smoker										
1974	15	11.4	6	21.4	4	10.0	4	14.8	7	17.1
1979	11	8.9	6	18.2	3	7.3	4	*	3	6.8
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	1	2.4	0	*	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	20	4.5	7	25.0	2	5.0	14	51.9	6	14.6
1979	15	12.1	9	27.3	4	9.8	6	*	1	2.3
Current (Weekly)										
1974	3	2.3	2	7.1	0	0.0	1	3.7	0	0.0
1979	2	1.6	2	6.1	0	0.0	0	*	0	0.0
Current (Daily)										
1974	17	12.9	5	17.9	2	5.0	13	48.1	6	14.6
1979	13	10.5	7	21.2	4	9.8	6	*	1	2.3
Total										
1974	132	100.1	28	100.0	40	100.0	27	99.9	41	100.0
1979	124	100.0	33	100.0	41	100.0	21	*	44	100.0

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
15,16

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	11	*	11	*	13	*	21	70.0	14	*
1979	25	80.6	9	*	15	50.0	33	94.3	2	*
Ex-Smoker										
1974	3	*	1	*	1	*	4	13.3	0	*
1979	2	6.5	2	*	6	20.0	1	2.9	0	*
Current Occasional Smoker										
1974	0	*	0	*	0	*	0	0.0	0	*
1979	1	3.2	2	*	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	1	*	3	*	5	*	5	16.7	3	*
1979	3	9.7	3	*	9	30.0	1	2.9	0	*
Current (Weekly)										
1974	0	*	0	*	0	*	2	6.7	0	*
1979	0	0.0	0	*	0	0.0	0	0.0	0	*
Current (Daily)										
1974	1	*	3	*	5	*	3	10.0	3	*
1979	3	9.7	3	*	9	30.0	1	2.9	0	*
Total										
1974	15	*	15	*	19	*	30	100.0	17	*
1979	31	100.0	16	*	30	100.0	35	100.0	2	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
17,18

	Have No Older Siblings		Have Older Brothers Only: One or More Smoke		Have Older Brothers Only: None Smoke		Have Older Sisters Only: One or More Smoke		Have Older Sisters Only: None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	84	60.9	11	39.3	26	60.5	10	33.3	22	48.9
1979	82	73.9	16	55.2	27	75.0	20	66.7	25	64.1
Ex-Smoker										
1974	12	8.7	4	14.3	9	20.9	4	13.3	10	22.2
1979	14	12.6	4	13.8	4	11.1	3	10.0	7	17.9
Current Occasional Smoker										
1974	3	2.2	0	0.0	0	0.0	1	3.3	1	2.2
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	39	28.3	13	46.4	8	18.6	15	50.0	12	26.7
1979	15	13.5	9	31.0	5	13.9	7	23.3	7	17.9
Current (Weekly)										
1974	4	2.9	0	0.0	0	0.0	1	3.3	1	2.2
1979	1	0.9	1	3.4	2	5.6	0	0.0	2	5.1
Current (Daily)										
1974	35	25.4	13	46.4	8	18.6	14	46.7	11	24.4
1979	14	12.6	8	27.6	3	8.3	7	23.3	5	12.8
Total										
1974	138	100.1	28	100.0	43	100.0	30	99.9	45	99.9
1979	111	100.0	29	100.0	36	100.0	30	100.0	39	100.0

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
17,18

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	13	52.0	8	*	9	*	15	*	4	*
1979	15	55.6	16	*	19	48.7	33	86.8	0	*
Ex-Smoker										
1974	2	8.0	1	*	0	*	2	*	0	*
1979	4	14.8	2	*	6	15.4	2	5.3	0	*
Current Occasional Smoker										
1974	0	0.0	0	*	0	*	0	*	1	*
1979	0	0.0	0	*	1	2.6	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	10	40.0	2	*	7	*	3	*	4	*
1979	8	29.6	5	*	13	33.3	3	7.9	0	*
Current (Weekly)										
1974	1	4.0	0	*	0	*	0	*	0	*
1979	0	0.0	0	*	1	2.6	0	0.0	0	*
Current (Daily)										
1974	9	36.0	2	*	7	*	3	*	4	*
1979	8	29.6	5	*	12	30.8	3	7.9	0	*
Total										
1974	25	100.0	11	*	16	*	20	*	9	*
1979	27	100.0	23	*	39	100.0	38	100.0	0	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
TOTAL

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	375	78.5	58	61.7	116	80.6	33	45.8	119	73.5
1979	431	86.9	56	63.6	123	84.8	45	65.2	119	84.4
Ex-Smoker										
1974	36	7.5	12	12.8	15	10.4	8	11.1	23	14.2
1979	28	5.6	12	13.6	10	6.9	8	11.6	13	9.2
Current Occasional Smoker										
1974	3	0.6	0	0.0	0	0.0	1	1.4	1	0.6
1979	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	64	13.4	24	25.5	13	9.0	30	41.7	19	11.7
1979	37	7.5	20	22.7	11	7.6	16	23.2	9	6.4
Current (Weekly)										
1974	8	1.7	2	2.1	1	0.7	2	2.8	1	0.6
1979	5	1.0	3	3.4	3	2.1	2	2.9	2	1.4
Current (Daily)										
1974	56	11.7	22	23.4	12	8.3	28	38.9	18	11.1
1979	32	6.5	17	19.3	8	5.5	14	20.3	7	5.0
Total										
1974	478	100.0	94	100.0	144	100.0	72	100.0	162	100.0
1979	496	100.0	88	100.0	145	100.0	69	100.0	141	100.0

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS
TOTAL

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	51	71.8	27	75.0	40	66.7	88	84.6	44	80.0
1979	65	77.4	41	70.7	57	57.0	114	93.4	11	*
Ex-Smoker										
1974	7	9.9	3	8.3	3	5.0	8	7.7	2	3.6
1979	7	8.3	7	12.1	18	18.0	4	3.3	0	*
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	0.0	1	1.8
1979	1	1.2	2	3.4	1	1.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	13	18.3	6	16.7	17	28.3	8	7.7	8	14.5
1979	11	13.1	8	13.8	24	24.0	4	3.3	1	*
Current (Weekly)										
1974	1	1.4	0	0.0	2	3.3	2	1.9	0	0.0
1979	0	0.0	0	0.0	1	1.0	0	0.0	0	*
Current (Daily)										
1974	12	16.9	6	16.7	15	25.0	6	5.8	8	14.5
1979	11	13.1	8	13.8	23	23.0	4	3.3	1	*
Total										
1974	71	100.0	36	100.0	60	100.0	104	100.0	55	99.9
1979	84	100.0	58	100.0	100	100.0	122	100.0	12	*

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
12,13,14

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	222	92.1	20	74.1	63	87.5	20	*	55	93.2
1979	225	96.2	32	84.2	63	94.0	22	73.3	59	100.0
Ex-Smoker										
1974	12	5.0	2	7.4	4	5.6	0	*	3	5.1
1979	3	1.3	5	13.2	0	0.0	3	10.0	0	0.0
Current Occasional Smoker										
1974	0	0.0	0	0.0	1	1.4	0	*	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	7	2.9	5	18.5	4	5.6	1	*	1	1.7
1979	6	2.6	1	2.6	4	6.0	5	16.7	0	0.0
Current (Weekly)										
1974	1	0.4	0	0.0	1	1.4	0	*	1	1.7
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current (Daily)										
1974	6	2.5	5	18.5	3	4.2	1	*	0	0.0
1979	6	2.6	1	2.6	4	6.0	5	16.7	0	0.0
Total										
1974	241	100.0	27	100.0	72	100.1	20	*	59	100.0
1979	234	100.0	38	100.0	67	100.0	30	100.0	59	100.0

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
12,13,14

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	23	*	9	*	15	*	43	100.0	25	92.6
1979	20	*	18	*	31	81.6	39	92.9	4	*
Ex-Smoker										
1974	0	*	1	*	3	*	0	0.0	1	3.7
1979	1	*	2	*	1	2.6	3	7.1	1	*
Current Occasional Smoker										
1974	0	*	0	*	0	*	0	0.0	0	0.0
1979	0	*	0	*	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	1	*	3	*	4	*	0	0.0	1	3.7
1979	1	*	1	*	6	15.8	0	0.0	0	*
Current (Weekly)										
1974	0	*	1	*	0	*	0	0.0	0	0.0
1979	0	*	0	*	2	5.3	0	0.0	0	*
Current (Daily)										
1974	1	*	2	*	4	*	0	0.0	1	3.7
1979	1	*	1	*	4	10.5	0	0.0	0	*
Total										
1974	24	*	13	*	22	*	43	100.0	27	100.0
1979	22	*	21	*	38	100.0	42	100.0	5	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
15,16

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	102	70.3	17	63.0	39	73.6	10	*	25	69.4
1979	114	87.0	17	*	40	93.0	19	70.4	23	76.7
Ex-Smoker										
1974	11	7.6	1	3.7	6	11.3	2	*	5	13.9
1979	8	6.1	3	*	2	4.7	2	7.4	1	3.3
Current Occasional Smoker										
1974	2	1.4	0	0.0	0	0.0	0	*	2	5.6
1979	0	0.0	0	*	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	30	20.7	9	33.3	8	15.1	4	*	4	11.1
1979	9	6.9	3	*	1	2.3	6	22.2	6	20.0
Current (Weekly)										
1974	2	1.4	0	0.0	1	1.9	1	*	1	2.8
1979	2	1.5	0	*	0	0.0	0	0.0	1	3.3
Current (Daily)										
1974	28	19.3	9	33.3	7	13.2	3	*	3	8.3
1979	7	5.3	3	*	1	2.3	6	22.2	5	16.7
Total										
1974	145	100.0	27	100.0	53	100.0	16	*	36	100.0
1979	131	100.0	23	*	43	100.0	27	100.0	30	100.0

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
15,16

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	10	*	9	*	8	*	21	*	9	*
1979	25	86.2	11	*	29	69.0	34	89.5	7	*
Ex-Smoker										
1974	2	*	0	*	4	*	1	*	1	*
1979	0	0.0	4	*	1	2.4	2	5.3	0	*
Current Occasional Smoker										
1974	0	*	1	*	0	*	0	*	0	*
1979	0	0.0	1	*	1	2.4	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	3	*	2	*	11	*	0	*	2	*
1979	4	13.8	3	*	11	26.2	2	5.3	1	*
Current (Weekly)										
1974	1	*	0	*	0	*	0	*	0	*
1979	0	0.0	0	*	0	0.0	0	0.0	0	*
Current (Daily)										
1974	2	*	2	*	11	*	0	*	2	*
1979	4	13.8	3	*	11	26.2	2	5.3	1	*
Total										
1974	15	*	12	*	23	*	22	*	12	*
1979	29	100.0	19	*	42	100.0	38	100.0	8	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
17,18

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	67	62.0	25	55.6	27	61.4	9	36.0	36	76.6
1979	55	64.7	28	68.3	39	72.2	11	42.3	34	75.6
Ex-Smoker										
1974	14	13.0	6	13.3	6	13.6	5	20.0	3	6.4
1979	8	9.4	7	17.1	4	7.4	3	11.5	2	4.4
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	2	7.7	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	27	25.0	14	31.1	11	25.0	11	44.0	8	17.0
1979	22	25.9	6	14.6	11	20.4	10	38.5	9	20.0
Current (Weekly)										
1974	3	2.8	1	2.2	1	2.3	0	0.0	1	2.1
1979	1	1.2	1	2.4	1	1.9	1	3.8	0	0.0
Current (Daily)										
1974	24	22.2	13	28.9	10	22.7	11	44.0	7	14.9
1979	21	24.7	5	12.2	10	18.5	9	34.6	9	20.0
Total										
1974	108	100.0	45	100.0	44	100.0	25	100.0	47	100.0
1979	85	100.0	41	100.0	54	100.0	26	100.0	45	100.0

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
17,18

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	12	*	8	*	12	*	21	80.8	11	*
1979	19	65.5	8	*	22	50.0	22	78.6	1	*
Ex-Smoker										
1974	1	*	3	*	2	*	1	3.8	1	*
1979	1	3.4	3	*	4	9.1	2	7.1	0	*
Current Occasional Smoker										
1974	0	*	1	*	1	*	0	0.0	0	*
1979	0	0.0	0	*	1	2.3	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	5	*	8	*	5	*	4	15.4	2	*
1979	9	31.0	10	*	17	38.6	4	14.3	0	*
Current (Weekly)										
1974	0	*	0	*	0	*	1	3.9	0	*
1979	1	3.4	1	*	0	0.0	1	3.6	0	*
Current (Daily)										
1974	5	*	8	*	5	*	3	11.5	2	*
1979	8	27.6	9	*	17	38.6	3	10.7	0	*
Total										
1974	18	*	20	*	20	*	26	99.9	14	*
1979	29	100.0	21	*	44	100.0	28	100.0	1	*

* Percentages not computed when N is less than 25.

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
TOTAL

	Have No Older Siblings		Have Older Brothers Only				Have Older Sisters Only			
			One or More Smoke		None Smoke		One or More Smoke		None Smoke	
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	391	79.1	62	62.6	129	76.3	39	62.9	116	81.7
1979	394	87.6	77	75.5	142	86.6	52	62.7	116	86.6
Ex-Smoker										
1974	37	7.5	9	9.1	16	9.5	7	11.3	11	7.7
1979	19	4.2	15	14.7	6	3.7	8	9.6	3	2.2
Current Occasional Smoker										
1974	2	0.4	0	0.0	1	0.6	0	0.0	2	1.4
1979	0	0.0	0	0.0	0	0.0	2	2.4	0	0.0
Current Regular Smoker (Weekly and Daily)										
1974	64	12.9	28	28.3	23	13.6	16	25.8	13	9.2
1979	37	8.2	10	9.8	16	9.8	21	25.3	15	11.2
Current (Weekly)										
1974	6	1.2	1	1.0	3	1.8	1	1.6	3	2.1
1979	3	0.7	1	1.0	1	0.6	1	1.2	1	0.7
Current (Daily)										
1974	58	11.7	27	27.3	20	11.8	15	24.2	10	7.0
1979	34	7.6	9	8.8	15	9.1	20	24.1	14	10.4
Total										
1974	494	99.9	99	100.0	169	100.0	62	100.0	142	99.9
1979	450	100.0	102	100.0	164	100.0	83	100.0	134	100.0

Exhibit A-4 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS
TOTAL

	Have Both Older Brothers and Sisters								One Sibling or More Not Specified	
	Brothers Smoke Sisters Do Not		Sisters Smoke Brothers Do Not		Both Brothers and Sisters Smoke		Neither Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	45	78.9	26	57.8	35	53.8	85	93.4	45	84.9
1979	64	80.0	37	60.7	82	66.1	95	88.0	12	*
Ex-Smoker										
1974	3	5.3	4	8.9	9	13.8	2	2.2	3	5.7
1979	2	2.5	9	14.8	6	4.8	7	6.5	1	*
Current Occasional Smoker										
1974	0	0.0	2	4.4	1	1.5	0	0.0	0	0.0
1979	0	0.0	1	1.6	2	1.6	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	9	15.8	13	28.9	20	30.8	4	4.4	5	9.4
1979	14	17.5	14	23.0	34	27.4	6	5.6	1	*
Current (Weekly)										
1974	1	1.8	1	2.2	0	0.0	1	1.1	0	0.0
1979	1	1.3	1	1.6	2	1.6	1	0.9	0	*
Current (Daily)										
1974	8	14.0	12	26.7	20	30.8	3	3.3	5	9.4
1979	13	16.3	13	21.3	32	25.8	5	4.6	1	*
Total										
1974	57	100.0	45	100.0	65	99.9	91	100.0	53	100.0
1979	80	100.0	61	100.0	124	100.0	108	100.0	14	*

* Percentages not computed when N is less than 25.

Exhibit A-5
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS
12,13,14

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	53	77.9	73	91.3	32	88.9	65	90.3	28	93.3
1979	52	82.5	71	94.7	23	85.2	68	93.2	7	*
Ex-Smoker										
1974	6	8.8	4	5.0	1	2.8	6	8.3	1	3.3
1979	7	11.1	2	2.7	4	14.8	5	6.8	0	*
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	9	13.2	3	3.8	3	8.3	1	1.4	1	3.3
1979	4	6.3	2	2.7	0	0.0	0	0.0	1	*
Current (Weekly)										
1974	1	1.5	0	0.0	1	2.8	1	1.4	0	0.0
1979	2	3.2	1	1.3	0	0.0	0	0.0	0	*
Current (Daily)										
1974	8	11.8	3	3.8	2	5.6	0	0.0	1	3.3
1979	2	3.2	1	1.3	0	0.0	0	0.0	1	*
Total										
1974	68	100.0	80	100.1	36	100.1	72	100.0	30	99.9
1979	63	100.0	75	100.0	27	100.0	73	100.0	8	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS
15,16

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	35	54.7	36	72.0	16	61.5	37	78.7	16	*
1979	51	63.8	54	85.7	12	*	46	95.8	2	*
Ex-Smoker										
1974	11	17.2	10	20.0	3	11.5	5	10.6	0	*
1979	13	16.3	4	6.3	3	*	1	2.1	0	*
Current Occasional Smoker										
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	*
1979	1	1.3	1	1.6	0	*	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	18	28.1	4	8.0	7	26.9	5	10.6	2	*
1979	15	18.8	4	6.3	4	*	1	2.1	0	*
Current (Weekly)										
1974	2	3.1	1	2.0	1	3.8	0	0.0	0	*
1979	0	0.0	0	0.0	1	*	0	0.0	0	*
Current (Daily)										
1974	16	25.0	3	6.0	6	23.1	5	10.6	2	*
1979	15	18.8	4	6.3	3	*	1	2.1	0	*
Total										
1974	64	100.0	50	100.0	26	99.9	47	99.9	18	*
1979	80	100.0	63	100.0	19	*	48	100.0	2	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS
17,18

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	31	47.7	24	46.2	14	43.8	27	67.5	9	*
1979	38	60.3	34	70.8	24	58.5	43	89.6	1	*
Ex-Smoker										
1974	4	6.2	12	23.1	6	18.8	8	20.0	0	*
Current Occasional Smoker										
1974	2	3.1	1	1.9	0	0.0	0	0.0	0	*
1979	1	1.6	0	0.0	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	28	43.1	15	28.8	12	37.5	5	12.5	3	*
1979	16	25.4	8	16.7	13	31.7	0	0.0	0	*
Current (Weekly)										
1974	1	1.5	0	0.0	1	3.1	1	2.5	0	*
1979	0	0.0	2	4.2	2	4.9	0	0.0	0	*
Current (Daily)										
1974	27	41.5	15	28.8	11	34.4	4	10.0	3	*
1979	16	25.4	6	12.5	11	26.8	0	0.0	0	*
Total										
1974	65	100.0	52	100.0	32	100.1	40	100.0	12	*
1979	63	100.0	48	100.0	41	100.0	48	100.0	1	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS
HAVE OLDER SIBLINGS
TOTAL

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	119	60.4	133	73.1	62	66.0	129	81.1	53	88.3
1979	141	68.4	159	85.5	59	67.8	157	92.9	10	*
Ex-Smoker										
1974	21	10.7	26	14.3	10	10.6	19	11.9	1	1.7
1979	28	13.6	12	6.5	11	12.6	11	6.5	0	*
Current Occasional Smoker										
1974	2	1.0	1	0.5	0	0.0	0	0.0	0	0.0
1979	2	1.0	1	0.5	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	55	27.9	22	12.1	22	23.4	11	6.9	6	10.0
1979	35	17.0	14	7.5	17	19.5	1	0.6	1	*
Current (Weekly)										
1974	4	2.0	1	0.5	3	3.2	2	1.3	0	0.0
1979	2	1.0	3	1.6	3	3.4	0	0.0	0	*
Current (Daily)										
1974	51	25.9	21	11.5	19	20.2	9	5.7	6	10.0
1979	33	16.0	11	5.9	14	16.1	1	0.6	1	*
Total										
1974	197	100.0	182	99.9	94	100.0	159	100.0	60	100.0
1979	206	100.0	186	100.0	87	100.0	169	100.0	11	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS

HAVE NO OLDER SIBLINGS

	12,13,14				15,16				17,18			
	One or Both Parents Smoke		Neither Parent Smokes		One or Both Parents Smoke		Neither Parent Smokes		One or Both Parents Smoke		Neither Parent Smokes	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	112	91.8	55	98.2	40	70.2	40	76.9	44	61.1	29	72.5
1979	134	95.0	82	100.0	36	70.6	45	90.0	28	70.0	31	81.6
Ex-Smoker												
1974	6	4.9	1	1.8	4	7.0	8	15.4	6	8.3	3	7.5
1979	3	2.1	0	0.0	6	11.8	3	6.0	6	15.0	4	10.5
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	1	2.5
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	4	3.3	0	0.0	13	22.8	4	7.7	21	29.2	7	17.5
1979	4	2.8	0	0.0	9	17.6	2	4.0	6	15.0	3	7.9
Current (Weekly)												
1974	1	0.8	0	0.0	3	5.3	0	0.0	3	4.2	1	2.5
1979	1	0.7	0	0.0	0	0.0	0	0.0	1	2.5	0	0.0
Current (Daily)												
1974	3	2.5	0	0.0	10	17.5	4	7.7	18	25.0	6	15.0
1979	3	2.1	0	0.0	9	17.6	2	4.0	5	12.5	3	7.9
Total												
1974	122	100.0	56	100.0	57	100.0	52	100.0	72	100.0	40	100.0
1979	141	100.0	82	100.0	51	100.0	50	100.0	40	100.0	38	100.0

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

BOYS
HAVE NO OLDER SIBLINGS
TOTAL

	One or Both Parents Smoke		Neither Parent Smokes	
	N	%	N	%
Never Smoked or Experimented Only				
1974	196	78.1	124	83.8
1979	198	85.3	158	92.9
Ex-Smoker				
1974	16	6.4	12	8.1
1979	15	6.5	7	4.1
Current Occasional Smoker				
1974	1	0.4	1	0.7
1979	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)				
1974	38	15.1	11	7.4
1979	19	8.2	5	2.9
Current (Weekly)				
1974	7	2.8	1	0.7
1979	2	0.9	0	0.0
Current (Daily)				
1974	31	12.4	10	6.8
1979	17	7.3	5	2.9
Total				
1974	251	100.0	148	100.1
1979	232	100.0	170	100.0

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS
12,13,14

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	51	77.3	68	90.7	20	*	64	94.1	28	100.0
1979	68	82.9	76	97.4	25	86.2	64	94.1	4	*
Ex-Smoker										
1974	4	6.1	2	2.7	1	*	3	4.4	0	0.0
1979	7	8.5	1	1.3	3	10.3	2	2.9	0	*
Current Occasional Smoker										
1974	0	0.0	1	1.3	0	*	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	11	16.7	4	5.3	1	*	1	1.5	0	0.0
1979	7	8.5	1	1.3	1	3.4	2	2.9	0	*
Current (Weekly)										
1974	1	1.5	2	2.7	0	*	0	0.0	0	0.0
1979	1	1.2	0	0.0	0	0.0	0	0.0	0	*
Current (Daily)										
1974	10	15.2	2	2.7	1	*	1	1.5	0	0.0
1979	6	7.3	1	1.3	1	3.4	2	2.9	0	*
Total										
1974	66	100.1	75	100.1	22	*	68	100.0	28	100.0
1979	82	100.0	78	100.0	29	100.0	68	100.0	4	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS
15,16

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	34	61.8	39	76.5	16	*	34	82.9	11	*
1979	50	71.4	38	82.6	25	75.8	40	95.2	7	*
Ex-Smoker										
1974	2	3.6	6	11.8	2	*	4	9.8	0	*
1979	5	7.1	2	4.3	2	6.1	1	2.4	0	*
Current Occasional Smoker										
1974	1	1.8	0	0.0	0	*	1	2.4	0	*
1979	1	1.4	0	0.0	1	3.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	18	32.7	6	11.8	1	*	2	4.9	3	*
1979	14	20.0	6	13.0	5	15.2	1	2.4	1	*
Current (Weekly)										
1974	1	1.8	1	2.0	0	*	0	0.0	0	*
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	*
Current (Daily)										
1974	17	30.9	5	9.8	1	*	2	4.9	3	*
1979	14	20.0	6	13.0	5	15.2	1	2.4	1	*
Total										
1974	55	99.9	51	100.1	19	*	41	100.0	14	*
1979	70	100.0	46	100.0	33	100.0	42	100.0	8	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS
17,18

HAVE OLDER SIBLINGS

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	34	54.8	30	65.2	12	44.4	38	84.4	11	*
1979	43	54.4	38	74.5	20	55.6	51	85.0	1	*
Ex-Smoker										
1974	9	14.5	3	6.5	6	22.2	3	6.7	1	*
1979	10	12.7	3	5.9	6	16.7	5	8.3	0	*
Current Occasional Smoker										
1974	0	0.0	0	0.0	1	3.7	0	0.0	0	*
1979	0	0.0	0	0.0	1	2.8	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	19	30.6	13	28.2	8	29.6	4	8.9	3	*
1979	26	32.9	10	19.6	9	25.0	4	6.7	0	*
Current (Weekly)										
1974	1	1.6	2	4.3	0	0.0	0	0.0	0	*
1979	2	2.5	1	2.0	1	2.8	1	1.7	0	*
Current (Daily)										
1974	18	29.0	11	23.9	8	29.6	4	8.9	3	*
1979	24	30.4	9	17.6	8	22.2	3	5.0	0	*
Total										
1974	62	99.9	46	99.9	27	99.9	45	100.0	15	*
1979	79	100.0	51	100.0	36	100.0	60	100.0	1	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS
HAVE OLDER SIBLINGS
TOTAL

	At Least One Parent Smokes				Neither Parent Smokes				Either Parent or Sibling Smoking Status Not Specified	
	At Least One Older Sibling Smokes		No Older Sibling Smokes		At Least One Older Sibling Smokes		No Older Sibling Smokes			
	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only										
1974	119	65.0	137	79.7	48	70.6	136	88.3	50	87.7
1979	161	69.7	152	86.9	70	71.4	155	91.2	12	*
Ex-Smoker										
1974	15	8.2	11	6.4	9	13.2	10	6.5	1	1.8
1979	22	9.5	6	3.4	11	11.2	8	4.7	0	*
Current Occasional Smoker										
1974	1	0.5	1	0.6	1	1.5	1	0.6	0	0.0
1979	1	0.4	0	0.0	2	2.0	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)										
1974	48	26.2	23	13.4	10	14.7	7	4.5	6	10.5
1979	47	20.3	17	9.7	15	15.3	7	4.1	1	*
Current (Weekly)										
1974	3	1.6	5	2.9	0	0.0	0	0.0	0	0.0
1979	3	1.3	1	0.6	1	1.0	1	0.6	0	*
Current (Daily)										
1974	45	24.6	18	10.5	10	14.7	7	4.5	6	10.5
1979	44	19.0	16	9.1	14	14.3	6	3.5	1	*
Total										
1974	183	99.9	172	100.1	68	100.0	154	99.9	57	100.0
1979	231	100.0	175	100.0	98	100.0	170	100.0	13	*

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS

HAVE NO OLDER SIBLINGS

	12,13,14				15,16				17,18			
	One or Both Parents Smoke		Neither Parent Smokes		One or Both Parents Smoke		Neither Parent Smokes		One or Both Parents Smoke		Neither Parent Smokes	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	113	89.0	76	95.0	38	62.3	45	91.8	32	62.7	24	66.7
1979	102	94.4	92	98.9	55	90.2	43	81.1	22	59.5	21	80.8
Ex-Smoker												
1974	9	7.1	3	3.8	4	6.6	1	2.0	9	17.6	4	11.1
1979	2	1.9	1	1.1	1	1.6	7	13.2	4	10.8	1	3.8
Current Occasional Smoker												
1974	0	0.0	0	0.0	1	1.6	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	5	3.9	1	1.3	18	29.5	3	6.1	10	19.6	8	22.2
1979	4	3.7	0	0.0	5	8.2	3	5.7	11	29.7	4	15.4
Current (Weekly)												
1974	1	0.8	0	0.0	1	1.6	0	0.0	1	2.0	1	2.8
1979	0	0.0	0	0.0	1	1.6	1	1.9	1	2.7	0	0.0
Current (Daily)												
1974	4	3.1	1	1.3	17	27.9	3	6.1	9	17.6	7	19.4
1979	4	3.7	0	0.0	4	6.6	2	3.8	10	27.0	4	15.4
Total												
1974	127	100.0	80	100.1	61	100.0	49	99.9	51	99.9	36	100.0
1979	108	100.0	93	100.0	61	100.0	53	100.0	37	100.0	26	100.0

* Percentages not computed when N is less than 25.

Exhibit A-5 (Cont.)
PARENTAL AND OLDER SIBLING SMOKING HABITS
(Both Parents Present)

GIRLS
HAVE NO OLDER SIBLINGS
TOTAL

	One or Both Parents Smoke		Neither Parent Smokes	
	N	%	N	%
Never Smoked or Experimented Only				
1974	183	76.6	145	87.9
1979	179	86.9	156	90.7
Ex-Smoker				
1974	22	9.2	8	4.8
1979	7	3.4	9	5.2
Current Occasional Smoker				
1974	1	0.4	0	0.0
1979	0	0.0	0	0.0
Current Regular Smoker (Weekly and Daily)				
1974	33	13.8	12	7.3
1979	20	9.7	7	4.1
Current (Weekly)				
1974	3	1.3	1	0.6
1979	2	1.0	1	0.6
Current (Daily)				
1974	30	12.6	11	6.7
1979	18	8.7	6	3.5
Total				
1974	239	100.1	165	100.0
1979	206	100.0	172	100.0

Exhibit A-6

TEENAGE CIGARETTE SMOKING - PARENTAL EDUCATION

BOYS

	12,13,14						15,16					
	No College		Some College		Not Stated		No College		Some College		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	189	87.9	187	92.1	120	93.0	116	66.3	103	74.6	34	66.7
1979	222	94.9	227	90.8	78	92.9	134	72.8	104	76.5	46	80.7
Ex-Smoker												
1974	16	7.4	10	4.9	2	1.6	22	12.6	19	13.8	4	7.8
1979	6	2.6	14	5.6	3	3.6	21	11.4	15	11.0	2	3.5
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	2	1.1	2	1.5	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	10	4.6	6	3.0	7	5.5	37	21.2	16	11.5	13	25.5
1979	6	2.6	9	3.6	3	3.6	27	14.7	15	11.0	9	15.8
Current (Weekly)												
1974	2	0.9	0	0.0	2	1.6	4	2.3	2	1.4	2	3.9
1979	2	0.9	3	1.2	0	0.0	3	1.6	1	0.7	0	0.0
Current (Daily)												
1974	8	3.7	6	3.0	5	3.9	33	18.9	14	10.1	11	21.6
1979	4	1.7	6	2.4	3	3.6	24	13.0	14	10.3	9	15.8
Total												
1974	215	99.9	103	100.0	129	100.1	175	100.1	138	99.9	51	100.0
1979	234	100.0	250	100.0	84	100.0	184	100.0	136	100.0	57	100.0

* Percentages not computed when N is less than 25.

Exhibit A-6 (Cont.)

TEENAGE CIGARETTE SMOKING - PARENTAL EDUCATION

BOYS

	17,18						Total					
	No College		Some College		Not Stated		No College		Some College		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	104	56.2	77	55.4	21	51.2	409	71.1	367	76.5	175	79.2
1979	131	68.9	99	67.3	24	66.7	487	80.1	430	80.7	148	83.6
Ex-Smoker												
1974	10	10.8	20	14.4	4	9.8	58	10.1	49	10.2	10	4.5
1979	25	13.2	19	12.9	2	5.6	52	8.6	48	9.0	7	4.0
Current Occasional Smoker												
1974	1	0.5	4	2.9	1	2.4	1	0.2	4	0.8	1	0.5
1979	1	0.5	0	0.0	0	0.0	3	0.5	2	0.4	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	60	32.5	38	27.4	15	36.6	107	18.6	60	12.5	35	15.8
1979	33	17.4	29	19.7	10	27.8	66	10.9	53	9.9	22	12.4
Current (Weekly)												
1974	2	1.1	3	2.2	2	4.9	8	1.4	5	1.0	6	2.7
1979	3	1.6	2	1.4	2	5.6	8	1.3	6	1.1	2	1.1
Current (Daily)												
1974	58	31.4	35	25.2	13	31.7	99	17.2	55	11.5	29	13.1
1979	30	15.8	27	18.4	8	22.2	58	9.5	47	8.8	20	11.3
Total												
1974	185	100.0	139	100.1	41	100.0	575	100.0	480	100.0	221	100.0
1979	190	100.0	147	100.0	36	100.0	608	100.0	533	100.0	177	100.0

* Percentages not computed when N is less than 25.

Exhibit A-6 (Cont.)

TEENAGE CIGARETTE SMOKING - PARENTAL EDUCATION

GIRLS

	12,13,14						15,16					
	No College		Some College		Not Stated		No College		Some College		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	224	89.2	150	88.8	121	93.8	119	66.1	90	73.2	41	70.7
1979	222	91.7	209	93.7	83	90.2	153	81.8	126	82.4	40	80.0
Ex-Smoker												
1974	12	4.8	10	5.9	4	3.1	16	8.9	12	9.8	5	8.6
1979	8	3.3	8	3.6	3	3.3	10	5.3	11	7.2	2	4.0
Current Occasional Smoker												
1974	1	0.4	0	0.0	0	0.0	1	0.6	3	2.4	1	1.7
1979	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	1	2.0
Current Regular Smoker (Weekly and Daily)												
1974	14	5.6	9	5.3	4	3.1	44	24.4	18	14.6	11	19.0
1979	12	5.0	6	2.7	6	6.5	23	12.3	16	10.5	7	14.0
Current (Weekly)												
1974	2	0.8	2	1.2	0	0.0	4	2.2	2	1.6	0	0.0
1979	0	0.0	1	0.4	1	1.1	0	0.0	2	1.3	1	2.0
Current (Daily)												
1974	12	4.8	7	4.1	4	3.1	40	22.2	16	13.0	11	19.0
1979	12	5.0	5	2.2	5	5.4	23	12.3	14	9.2	6	12.0
Total												
1974	251	100.0	169	100.0	129	100.0	180	100.0	123	100.0	58	100.0
1979	242	100.0	223	100.0	92	100.0	187	100.0	153	100.0	50	100.0

* Percentages not computed when N is less than 25.

Exhibit A-6 (Cont.)

TEENAGE CIGARETTE SMOKING - PARENTAL EDUCATION

GIRLS

	17,18						Total					
	No College		Some College		Not Stated		No College		Some College		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	118	63.8	82	64.6	28	50.9	461	74.8	322	76.8	190	78.5
1979	121	62.7	90	62.9	28	73.7	496	79.7	425	81.9	151	83.9
Ex-Smoker												
1974	19	10.3	18	14.2	5	9.1	47	7.6	40	9.5	14	5.8
1979	14	7.3	18	12.6	2	5.3	32	5.1	37	7.1	7	3.9
Current Occasional Smoker												
1974	1	0.5	1	0.8	0	0.0	3	0.5	4	1.0	1	0.4
1979	1	0.5	2	1.4	0	0.0	2	0.3	2	0.4	1	0.6
Current Regular Smoker (Weekly and Daily)												
1974	47	25.4	26	20.5	22	40.0	105	17.0	53	12.6	37	15.3
1979	57	29.5	33	23.1	8	21.1	92	14.8	55	10.6	21	11.7
Current (Weekly)												
1974	4	2.2	2	1.6	1	1.8	10	1.6	6	1.4	1	0.4
1979	5	2.6	2	1.4	0	0.0	5	0.8	5	1.0	2	1.1
Current (Daily)												
1974	43	23.2	24	18.9	21	38.2	95	15.4	47	11.2	36	14.9
1979	52	26.9	31	21.7	8	21.1	87	14.0	50	9.6	19	10.6
Total												
1974	185	100.0	127	100.1	55	100.0	616	99.9	419	99.9	242	100.0
1979	193	100.0	143	100.0	38	100.0	622	100.0	519	100.0	180	100.0

* Percentages not computed when N is less than 25.

Exhibit A-7

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

BOYS

	12,13,14						15,16					
	At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented		At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	90	75.0	248	92.9	133	98.5	88	51.2	127	84.1	32	97.0
1979	99	78.0	226	95.4	178	100.0	93	57.8	133	85.8	42	95.5
Ex-Smoker												
1974	11	9.2	16	6.0	1	0.7	29	16.9	14	9.3	1	3.0
1979	14	11.0	9	3.8	0	0.0	19	11.8	18	11.6	1	2.3
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	3	1.9	1	0.6	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	19	15.8	3	1.1	1	0.7	55	32.0	10	6.6	0	0.0
1979	14	11.0	2	0.8	0	0.0	46	28.6	3	1.9	1	2.3
Current (Weekly)												
1974	2	1.7	1	0.4	0	0.0	6	3.5	2	1.3	0	0.0
1979	1	0.8	2	0.8	0	0.0	3	1.9	0	0.0	0	0.0
Current (Daily)												
1974	17	14.2	2	0.7	1	0.7	49	28.5	8	5.3	0	0.0
1979	13	10.2	0	0.0	0	0.0	43	26.7	3	1.9	1	2.3
Total												
1974	120	100.1	267	100.0	135	99.9	172	100.1	151	100.0	33	100.0
1979	127	100.0	237	100.0	178	100.0	161	100.0	155	100.0	44	100.0

* Percentages not computed when N is less than 25.

Exhibit A-7 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

BOYS

	17, 18						Total					
	At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented		At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented	
Never Smoked or Experimented Only												
1974	97	42.2	83	76.1	18	*	275	52.7	458	86.9	183	96.3
1979	122	56.7	94	80.3	32	94.1	313	62.2	453	89.0	252	98.4
Ex-Smoker												
1974	30	13.0	13	11.9	1	*	70	13.4	43	8.2	3	1.6
1979	33	15.3	13	11.1	0	0.0	66	13.1	40	7.9	1	0.4
Current Occasional Smoker												
1974	5	2.2	1	0.9	0	*	5	1.0	1	0.2	0	0.0
1979	0	0.0	1	0.9	0	0.0	3	0.6	2	0.4	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	98	42.6	12	11.0	3	*	172	33.0	25	4.7	4	2.1
1979	60	27.9	9	7.7	2	5.9	120	23.9	14	2.8	3	1.2
Current (Weekly)												
1974	7	3.0	0	0.0	0	*	15	2.9	3	0.6	0	0.0
1979	5	2.3	2	1.7	0	0.0	9	1.8	4	0.8	0	0.0
Current (Daily)												
1974	91	39.6	12	11.0	3	*	157	30.1	22	4.2	4	2.1
1979	55	25.6	7	6.0	2	5.9	111	22.1	10	2.0	3	1.2
Total												
1974	230	100.0	109	99.9	22	*	522	100.1	527	100.1	190	100.1
1979	215	100.0	117	100.0	34	100.0	503	100.0	509	100.0	256	100.0

* Percentages not computed when N is less than 25.

Oct 91

Exhibit A-7 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

GIRLS

	12,13,14						15,16					
	At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented		At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	104	73.2	221	94.0	154	100.0	83	47.7	118	87.4	43	97.7
1979	93	72.7	227	97.0	178	100.0	111	65.7	145	91.8	56	100.0
Ex-Smoker												
1974	14	9.9	11	4.7	0	0.0	25	14.4	6	4.4	1	2.3
1979	11	8.6	7	3.0	0	0.0	16	9.5	7	4.4	0	0.0
Current Occasional Smoker												
1974	1	0.7	0	0.0	0	0.0	3	1.7	2	1.5	0	0.0
1979	0	0.0	0	0.0	0	0.0	1	0.6	1	0.6	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	23	16.2	3	1.3	0	0.0	63	36.2	9	6.7	0	0.0
1979	24	18.8	0	0.0	0	0.0	41	24.3	5	3.2	0	0.0
Current (Weekly)												
1974	4	2.8	0	0.0	0	0.0	6	3.4	0	0.0	0	0.0
1979	2	1.6	0	0.0	0	0.0	3	1.8	0	0.0	0	0.0
Current (Daily)												
1974	19	13.4	3	1.3	0	0.0	57	32.8	9	6.7	0	0.0
1979	22	17.2	0	0.0	0	0.0	38	22.5	5	3.2	0	0.0
Total												
1974	142	100.0	235	100.0	154	100.0	174	100.0	135	100.0	44	100.0
1979	128	100.0	234	100.0	178	100.0	169	100.0	158	100.0	56	100.0

* Percentages not computed when N is less than 25.

Exhibit A-7 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

GIRLS

	17, 18						Total					
	At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented		At Least One Is A Regular Smoker		None Is A Regular Smoker		None Has Experimented	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	99	45.0	100	87.0	24	92.3	286	53.4	439	90.5	221	98.7
1979	111	48.1	101	87.8	23	*	315	59.7	473	93.3	257	99.6
Ex-Smoker												
1974	34	15.5	6	5.2	2	7.7	73	13.6	23	4.7	3	1.3
1979	25	10.8	8	7.0	1	*	52	9.8	22	4.3	1	0.4
Current Occasional Smoker												
1974	2	0.9	0	0.0	0	0.0	6	1.1	2	0.4	0	0.0
1979	2	0.9	1	0.9	0	*	3	0.6	2	0.4	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	85	38.6	9	7.8	0	0.0	171	31.9	21	4.3	0	0.0
1979	93	40.3	5	4.3	0	*	158	29.9	10	2.0	0	0.0
Current (Weekly)												
1974	6	2.7	1	0.9	0	0.0	16	3.0	1	0.2	0	0.0
1979	5	2.2	2	1.7	0	*	10	1.9	2	0.4	0	0.0
Current (Daily)												
1974	79	35.9	8	7.0	0	0.0	155	28.9	20	4.1	0	0.0
1979	88	38.1	3	2.6	0	*	148	28.0	8	1.6	0	0.0
Total												
1974	220	100.0	115	100.1	26	100.0	536	100.0	485	99.9	224	100.0
1979	231	100.0	115	100.0	24	*	528	100.0	507	100.0	258	100.0

* Percentages not computed when N is less than 25.

Exhibit A-8

WORKING PRACTICES DURING PAST YEAR

BOYS

	12,13,14						15,16					
	Worked All Year		Worked Part of Year		Didn't Work		Worked All Year		Worked Part of Year		Didn't Work	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	54	90.0	258	90.2	184	91.5	26	57.8	161	69.1	66	76.7
1979	42	91.3	245	92.5	240	93.4	36	78.3	176	76.5	72	71.3
Ex-Smoker												
1974	5	8.3	15	5.2	8	4.0	10	22.2	26	11.2	9	10.5
1979	1	2.2	11	4.2	11	4.3	3	6.5	25	10.9	10	9.9
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1979	0	0.0	0	0.0	0	0.0	1	2.2	3	1.3	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	1	1.7	13	4.5	9	4.5	9	20.0	46	19.7	11	12.8
1979	3	6.5	9	3.4	6	2.3	6	13.0	26	11.3	19	18.8
Current (Weekly)												
1974	0	0.0	2	0.7	2	1.0	1	2.2	5	2.1	2	2.3
1979	0	0.0	3	1.1	2	0.8	0	0.0	4	1.7	0	0.0
Current (Daily)												
1974	1	1.7	11	3.8	7	3.5	8	17.8	41	17.6	9	10.5
1979	3	6.5	6	2.3	4	1.6	6	13.0	22	9.6	19	18.8
Total												
1974	60	100.0	286	99.9	201	100.0	45	100.0	233	100.0	86	100.0
1979	46	100.0	265	100.0	257	100.0	46	100.0	230	100.0	101	100.0

Exhibit A-8 (Cont.)

WORKING PRACTICES DURING PAST YEAR

BOYS

	17, 18						Total					
	Worked All Year		Worked Part of Year		Didn't Work		Worked All Year		Worked Part of Year		Didn't Work	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	41	48.2	138	56.8	23	62.2	121	63.7	557	73.1	273	84.3
1979	68	66.0	153	68.6	33	70.2	146	74.9	574	79.9	345	85.2
Ex-Smoker												
1974	12	14.1	28	11.5	4	10.8	27	14.2	69	9.1	21	6.5
1979	11	10.7	28	12.6	7	14.9	15	7.7	64	8.9	28	6.9
Current Occasional Smoker												
1974	1	1.2	5	2.1	0	0.0	1	0.5	5	0.7	0	0.0
1979	0	0.0	1	0.4	0	0.0	1	0.5	4	0.6	0	0.0
Current Regular Smoker (Weekly and Daily)												
1974	31	36.5	72	29.6	10	27.0	41	21.6	131	17.2	30	9.3
1979	24	23.3	41	18.4	7	14.9	33	16.9	76	10.6	32	7.9
Current (Weekly)												
1974	3	3.5	4	1.6	0	0.0	4	2.1	11	1.4	4	1.2
1979	2	1.9	4	1.8	1	2.1	2	1.0	11	1.5	3	0.7
Current (Daily)												
1974	28	32.9	68	28.0	10	27.0	37	19.5	120	15.7	26	8.0
1979	22	21.4	37	16.6	6	12.8	31	15.9	65	9.1	29	7.2
Total												
1974	85	99.9	243	100.0	37	100.0	190	100.0	762	100.0	324	100.0
1979	103	100.0	223	100.0	47	100.0	195	100.0	718	100.0	405	100.0

Exhibit A-8 (Cont.)

WORKING PRACTICES DURING PAST YEAR

GIRLS

	12,13,14						15,16					
	Worked All Year		Worked Part of Year		Didn't Work		Worked All Year		Worked Part of Year		Didn't Work	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	32	84.2	160	87.9	303	92.1	14	*	100	61.0	136	78.6
1979	26	86.7	146	88.0	342	94.7	14	*	132	75.9	173	86.9
Ex-Smoker												
1974	2	5.3	12	6.6	12	3.6	2	*	19	11.6	12	6.9
1979	1	3.3	8	4.8	10	2.8	0	*	16	9.2	7	3.5
Current Occasional Smoker												
1974	1	2.6	0	0.0	0	0.0	0	*	4	2.4	1	0.6
1979	0	0.0	0	0.0	0	0.0	0	*	1	0.6	1	0.5
Current Regular Smoker (Weekly and Daily)												
1974	3	7.9	10	5.5	14	4.3	8	*	41	25.0	24	13.9
1979	3	10.0	12	7.2	9	2.5	3	*	25	14.4	18	9.0
Current (Weekly)												
1974	1	2.6	2	1.1	1	0.3	1	*	1	0.6	4	2.3
1979	0	0.0	1	0.6	1	0.3	0	*	1	0.6	2	1.0
Current (Daily)												
1974	2	5.3	8	4.4	13	4.0	7	*	40	24.4	20	11.6
1979	3	10.0	11	6.6	8	2.2	3	*	24	13.8	16	8.0
Total												
1974	38	100.0	182	100.0	329	100.0	24	*	164	100.0	173	100.0
1979	30	100.0	166	100.0	361	100.0	17	*	174	100.0	199	100.0

* Percentage is not computed when N is less than 25.

Exhibit A-8 (Cont.)

WORKING PRACTICES DURING PAST YEAR

GIRLS

	17, 18						Total					
	Worked All Year		Worked Part of Year		Didn't Work		Worked All Year		Worked Part of Year		Didn't Work	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	29	51.8	131	60.9	68	70.8	75	63.6	391	69.7	507	84.8
1979	44	55.0	129	62.6	66	75.9	84	66.1	407	74.5	581	89.8
Ex-Smoker												
1974	9	16.1	23	10.7	10	10.4	13	11.0	54	9.6	34	5.7
1979	10	12.5	21	10.2	3	3.4	11	8.7	45	8.2	20	3.1
Current Occasional Smoker												
1974	0	0.0	2	0.9	0	0.0	1	0.8	6	1.1	1	0.2
1979	0	0.0	2	1.0	1	1.1	0	0.0	3	0.5	2	0.3
Current Regular Smoker (Weekly and Daily)												
1974	18	32.1	59	27.4	18	18.8	29	24.6	110	19.6	56	9.4
1979	26	32.5	54	26.2	17	19.5	32	25.2	91	16.7	44	6.8
Current (Weekly)												
1974	3	5.4	4	1.9	0	0.0	5	4.2	7	1.2	5	0.8
1979	0	0.0	7	3.4	0	0.0	0	0.0	9	1.6	3	0.5
Current (Daily)												
1974	15	26.8	55	25.6	18	18.8	24	20.3	103	18.4	51	8.5
1979	26	32.5	47	22.8	17	19.5	32	25.2	82	15.0	41	6.3
Total												
1974	56	100.1	215	100.0	96	100.0	118	99.9	561	100.0	598	100.0
1979	80	100.0	206	100.0	87	100.0	127	100.0	546	100.0	647	100.0

Exhibit A-9

COURSE NOW TAKING IN HIGH SCHOOL

(Those in High School)

BOYS

	12,13,14						15,16					
	College Prep.		Other Than College Prep.		Not Stated		College Prep.		Other Than College Prep.		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	55	83.3	38	80.9	6	*	157	75.5	82	61.2	3	*
1979	49	92.5	47	78.3	1	*	179	82.5	88	68.2	6	*
Ex-Smoker												
1974	4	6.1	5	10.6	1	*	25	12.0	17	12.7	1	*
1979	2	3.8	6	10.0	0	*	21	9.7	12	9.3	1	*
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	*	0	0.0	0	0.0	0	*
1979	0	0.0	0	0.0	0	*	1	0.5	2	1.6	0	*
Current Regular Smoker (Weekly and Daily)												
1974	7	10.6	4	8.5	0	*	26	12.5	35	26.1	0	*
1979	2	3.8	7	11.7	1	*	16	7.4	27	20.9	0	*
Current (Weekly)												
1974	1	1.5	0	0.0	0	*	4	1.9	4	3.0	0	*
1979	1	1.9	1	1.7	0	*	2	0.9	2	1.6	0	*
Current (Daily)												
1974	6	9.1	4	8.5	0	*	22	10.6	31	23.1	0	*
1979	1	1.9	6	10.0	1	*	14	6.5	25	19.4	0	*
Total												
1974	66	100.0	47	100.0	7	*	208	100.0	134	100.0	4	*
1979	53	100.0	60	100.0	2	*	217	100.0	129	100.0	7	*

* Percentage is not computed when N is less than 25.

Exhibit A-9 (Cont.)

COURSE NOW TAKING IN HIGH SCHOOL

(Those in High School)

BOYS

	17, 18						Total					
	College Prep.		Other Than College Prep.		Not Stated		College Prep.		Other Than College Prep.		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	89	64.5	45	46.9	4	*	301	73.1	165	59.6	13	*
1979	112	72.7	75	67.6	3	*	340	80.2	210	70.0	10	*
Ex-Smoker												
1974	15	10.9	13	13.5	0	*	44	10.7	35	12.6	2	*
1979	21	13.6	15	13.5	0	*	44	10.4	33	11.0	1	*
Current Occasional Smoker												
1974	3	2.2	1	1.0	0	*	3	0.7	1	0.4	0	*
1979	1	0.6	0	0.0	0	*	2	0.5	2	0.7	0	*
Current Regular Smoker (Weekly and Daily)												
1974	31	22.5	37	38.5	1	*	64	15.5	76	27.4	1	*
1979	20	13.0	21	18.9	1	*	38	9.0	55	18.3	2	*
Current (Weekly)												
1974	3	2.2	2	2.1	0	*	8	1.9	6	2.2	0	*
1979	2	1.3	2	1.8	0	*	5	1.2	5	1.7	0	*
Current (Daily)												
1974	28	20.3	35	36.5	1	*	56	13.6	70	25.3	1	*
1979	18	11.7	19	17.1	1	*	33	7.8	50	16.7	2	*
Total												
1974	138	100.1	96	100.0	5	*	412	100.0	277	100.1	16	*
1979	154	100.0	111	100.0	4	*	424	100.0	300	100.0	13	*

* Percentage is not computed when N is less than 25.

Exhibit A-9 (Cont.)

COURSE NOW TAKING IN HIGH SCHOOL

(Those in High School)

GIRLS

	12,13,14						15,16					
	College Prep.		Other Than College Prep.		Not Stated		College Prep.		Other Than College Prep.		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	71	86.6	47	74.6	4	*	133	75.1	98	64.5	4	*
1979	65	85.5	46	86.8	7	*	196	87.1	98	73.7	6	*
Ex-Smoker												
1974	7	8.5	7	11.1	0	*	16	9.0	15	9.9	0	*
1979	3	3.9	3	5.7	0	*	11	4.9	12	9.0	0	*
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	*	1	0.6	2	1.3	2	*
1979	0	0.0	0	0.0	0	*	1	0.4	0	0.0	0	*
Current Regular Smoker (Weekly and Daily)												
1974	4	4.9	9	14.3	0	*	27	15.3	37	24.3	1	*
1979	8	10.5	4	7.5	0	*	17	7.6	23	17.3	1	*
Current (Weekly)												
1974	1	1.2	1	1.6	0	*	3	1.7	2	1.3	0	*
1979	0	0.0	0	0.0	0	*	1	0.4	2	1.5	0	*
Current (Daily)												
1974	3	3.7	8	12.7	0	*	24	13.6	35	23.0	1	*
1979	8	10.5	4	7.5	0	*	16	7.1	21	15.8	1	*
Total												
1974	82	100.0	63	100.0	4	*	177	100.0	152	100.0	7	*
1979	76	100.0	53	100.0	7	*	225	100.0	133	100.0	7	*

* Percentage is not computed when N is less than 25.

Exhibit A-9 (Cont.)

COURSE NOW TAKING IN HIGH SCHOOL

(Those in High School)

GIRLS

	17, 18						Total					
	College Prep.		Other Than College Prep.		Not Stated		College Prep.		Other Than College Prep.		Not Stated	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	94	70.1	57	67.9	2	*	298	75.8	202	67.6	10	*
1979	108	72.5	46	55.4	0	*	369	82.0	190	70.6	13	*
Ex-Smoker												
1974	16	11.9	7	8.3	0	*	39	9.9	29	9.7	0	*
1979	11	7.4	9	10.8	0	*	25	5.6	24	8.9	0	*
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	*	1	0.3	2	0.7	2	*
1979	1	0.7	1	1.2	1	*	2	0.4	1	0.4	1	*
Current Regular Smoker (Weekly and Daily)												
1974	24	17.9	20	23.8	0	*	55	14.0	66	22.1	1	*
1979	29	19.5	27	32.5	1	*	54	12.0	54	20.1	2	*
Current (Weekly)												
1974	2	1.5	0	0.0	0	*	6	1.5	3	1.0	0	*
1979	2	1.3	2	2.4	0	*	3	0.7	4	1.5	0	*
Current (Daily)												
1974	22	16.4	20	23.8	0	*	49	12.5	63	21.1	1	*
1979	27	18.1	25	30.1	1	*	51	11.3	50	18.6	2	*
Total												
1974	134	99.9	84	100.0	2	*	393	100.0	299	100.1	13	*
1979	149	100.0	83	100.0	2	*	450	100.0	269	100.0	16	*

* Percentage is not computed when N is less than 25.

Exhibit A-10

POSSIBILITY OF SMOKING FIVE YEARS FROM NOW

BOYS

	12, 13, 14						15, 16					
	Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know		Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	43	72.9	441	93.2	12	*	9	20.9	243	76.4	1	*
1979	31	73.8	493	94.4	3	*	11	26.2	271	81.6	2	*
Ex-Smoker												
1974	5	8.5	23	4.9	0	*	3	7.0	42	13.2	0	*
1979	3	7.1	19	3.6	1	*	2	4.8	36	10.8	0	*
Current Occasional Smoker												
1974	0	0.0	0	0.0	0	*	0	0.0	0	0.0	0	*
1979	0	0.0	0	0.0	0	*	1	2.4	3	0.9	0	*
Current Regular Smoker (Weekly and Daily)												
1974	11	18.7	9	1.9	3	*	31	72.1	33	10. 4	2	*
1979	8	19.0	10	1.9	0	*	28	66.7	22	6.6	1	*
Current (Weekly)												
1974	2	3.4	1	0.2	1	*	1	2.3	7	2.2	0	*
1979	2	4.8	3	0.6	0	*	2	4.8	1	0.3	1	*
Current (Daily)												
1974	9	15.3	8	1.7	2	*	30	69.8	26	8.2	2	*
1979	6	14.3	7	1.3	0	*	26	61.9	21	6.3	0	*
Total												
1974	59	100.1	473	100.0	15	*	43	100.0	318	100.0	3	*
1979	42	100.0	522	100.0	4	*	42	100.0	332	100.0	3	*

* Percentage is not computed when N is less than 25.

Exhibit A-10 (Cont.)

POSSIBILITY OF SMOKING FIVE YEARS FROM NOW

BOYS

	17, 18						Total					
	Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know		Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	11	14.3	189	66.8	2	*	63	35.2	873	81.3	15	*
1979	6	14.6	247	75.1	1	*	48	38.4	1011	85.5	6	*
Ex-Smoker												
1974	2	2.6	41	14.5	1	*	10	5.6	106	9.9	1	*
1979	1	2.4	45	13.7	0	*	6	4.8	100	8.5	1	*
Current Occasional Smoker												
1974	2	2.6	4	1.4	0	*	2	1.1	4	0.4	0	*
1979	0	0.0	1	0.3	0	*	1	0.8	4	0.3	0	*
Current Regular Smoker (Weekly and Daily)												
1974	62	80.5	49	17.4	2	*	104	58.1	91	8.4	7	*
1979	34	82.9	36	10.9	2	*	70	56.0	68	5.7	3	*
Current (Weekly)												
1974	4	5.2	3	1.1	0	*	7	3.9	11	1.0	1	*
1979	3	7.3	4	1.2	0	*	7	5.6	8	0.7	1	*
Current (Daily)												
1974	58	75.3	46	16.3	2	*	97	54.2	80	7.4	6	*
1979	31	75.6	32	9.7	2	*	63	50.4	60	5.1	2	*
Total												
1974	77	100.0	283	100.1	5	*	179	100.0	1074	100.0	23	*
1979	41	100.0	329	100.0	3	*	125	100.0	1183	100.0	10	*

* Percentage is not computed when N is less than 25.

Exhibit A-10 (Cont.)

POSSIBILITY OF SMOKING FIVE YEARS FROM NOW

GIRLS

	12, 13, 14						15, 16					
	Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know		Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	46	67.6	439	93.6	10	*	20	31.2	230	78.0	2	*
1979	39	70.9	470	94.6	5	*	13	31.0	306	87.9	0	*
Ex-Smoker												
1974	7	10.3	18	3.8	1	*	6	9.4	27	9.2	0	*
1979	4	7.3	15	3.0	0	*	2	4.8	21	6.0	0	*
Current Occasional Smoker												
1974	0	0.0	1	0.2	0	*	0	0.0	5	1.7	0	*
1979	0	0.0	0	0.0	0	*	1	2.4	1	0.3	0	*
Current Regular Smoker (Weekly and Daily)												
1974	15	22.1	11	2.3	1	*	38	59.4	33	11.2	0	*
1979	12	21.8	12	2.4	0	*	26	61.9	20	5.7	0	*
Current (Weekly)												
1974	1	1.5	3	0.6	0	*	1	1.6	5	1.7	0	*
1979	2	3.6	0	0.0	0	*	1	2.4	2	0.6	0	*
Current (Daily)												
1974	14	20.6	8	1.7	1	*	37	57.8	26	9.5	0	*
1979	10	18.2	12	2.4	0	*	25	59.5	18	5.2	0	*
Total												
1974	68	100.0	469	99.9	12	*	64	100.0	295	100.1	2	*
1979	55	100.0	497	100.0	5	*	42	100.0	348	100.0	0	*

* Percentage is not computed when N is less than 25.

Exhibit A-10 (Cont.)

POSSIBILITY OF SMOKING FIVE YEARS FROM NOW

GIRLS

	17, 18						Total					
	Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know		Definitely Yes Probably Yes		Definitely Not Probably Not		Don't Know	
	N	%	N	%	N	%	N	%	N	%	N	%
Never Smoked or Experimented Only												
1974	13	20.6	213	71.2	2	*	79	40.5	882	83.0	14	*
1979	6	11.3	231	72.9	2	*	58	38.7	1007	86.7	7	*
Ex-Smoker												
1974	2	3.2	39	13.0	1	*	15	7.7	84	7.9	2	*
1979	3	5.7	30	9.5	1	*	9	6.0	66	5.7	1	*
Current Occasional Smoker												
1974	0	0.0	2	0.7	0	*	0	0.0	8	0.8	0	*
1979	2	3.8	1	0.3	0	*	3	2.0	2	0.2	0	*
Current Regular Smoker (Weekly and Daily)												
1974	48	76.2	45	15.0	2	*	101	51.8	89	8.4	3	*
1979	42	79.2	55	17.4	1	*	80	53.3	87	7.5	1	*
Current (Weekly)												
1974	1	1.6	6	2.0	0	*	3	1.5	14	1.3	0	*
1979	2	3.8	5	1.6	0	*	5	3.3	7	0.6	0	*
Current (Daily)												
1974	47	74.6	39	13.0	2	*	98	50.3	75	7.1	3	*
1979	40	75.5	50	15.8	1	*	75	50.0	80	6.9	1	*
Total												
1974	63	100.0	299	99.9	5	*	195	100.0	1063	100.1	19	*
1979	53	100.0	317	100.0	4	*	150	100.0	1162	100.0	9	*

* Percentage is not computed when N is less than 25.

Exhibit A-11

DYNAMICS OF TEENAGE SMOKING

Mean Factor Scores

FACTOR NUMBER	FACTOR TITLE	Boys				Girls			
		1974 Non-smokers	1979 Non-smokers	1974 Smokers	1979 Smokers	1974 Non-smokers	1979 Non-smokers	1974 Smokers	1979 Smokers
1	Health	13.21	13.46	11.74	12.26	13.17	13.47	11.94	12.63
2	Nonsmokers' Rights	12.41	13.22	9.30	10.06	12.76	13.28	9.70	10.69
3	Positive Aspects of Smoking	6.56	6.38	8.07	7.99	6.47	6.30	7.48	7.57
4	Rationalization	7.20	8.12	9.06	8.59	8.52	8.31	8.80	8.38
5	Stereotype of Smoking	9.08	9.16	7.00	7.01	8.78	8.89	6.29	6.43
6	Stereotype of Smoker	11.84	12.30	8.56	8.84	11.66	12.24	8.38	8.85
7	Feeling Toward Authority	10.99	11.15	10.26	10.67	11.34	11.44	10.56	10.76
8	Control of Future	12.91	13.15	11.95	11.92	13.17	13.42	12.17	12.26

Exhibit A-12

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
SMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 1 - Health:										
Cigarette smoking can harm the health of teenagers.	90	63.8	38	27.0	7	5.0	5	3.5	1	0.7
I believe the health information about smoking is true.	92	65.2	32	22.7	10	7.1	5	3.5	2	1.4
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	29	20.6	32	22.7	6	4.3	17	12.1	57	40.4
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	47	33.3	31	22.0	18	12.8	30	21.3	15	10.6
Cigarette smoking should be forbidden inside public places.	36	25.5	16	11.3	7	5.0	19	13.5	63	44.7
If I smoke around other people, I take away their right to breathe clean air.	75	53.2	34	24.1	6	4.3	10	7.1	16	11.3
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	18	12.8	15	10.6	10	7.1	28	19.9	70	49.6
People who smoke seem to be more at ease with others.	29	20.6	44	31.2	18	12.8	28	19.9	22	15.6
Smoking cigarettes gives you a good feeling.	18	12.8	32	22.7	14	9.9	31	22.0	46	32.6
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	59	41.8	30	21.3	10	7.1	18	12.8	24	17.0
Cigarette smoking is harmful only if a person inhales.	30	21.3	14	9.9	9	6.4	24	17.0	64	45.4
Teenagers who smoke regularly can quit for good any time they like.	30	21.3	19	13.5	8	5.7	27	19.1	57	40.4

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
SMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking:										
Most girls start smoking cigarettes to attract boys.	20	14.2	19	13.5	23	16.3	30	21.3	49	34.8
Most boys start smoking cigarettes to try to become more popular.	32	22.7	22	15.6	10	7.1	23	16.3	54	38.3
If you don't smoke cigarettes, other teenagers put you down.	18	12.8	6	4.3	2	1.4	22	15.6	93	66.0
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	24	17.0	26	18.4	14	9.9	31	22.0	46	32.6
Teenage smokers think they are grown-up, but they really aren't.	37	26.2	26	18.4	16	11.3	30	21.3	32	22.7
Teenage smokers think they look cool, but they don't really.	39	27.7	29	20.6	19	13.5	21	14.9	33	23.4
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	95	67.4	21	14.9	10	7.1	4	2.8	11	7.8
I wish I were older than I am now. (Reverse score)	38	27.0	13	9.2	8	5.7	24	17.0	58	41.1
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	40	28.4	25	17.7	11	7.8	26	18.4	39	27.7
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	59	41.8	32	22.7	14	9.9	24	17.0	12	8.5
I can control the kind of person I will become.	83	58.9	28	19.9	11	7.8	10	7.1	9	6.4
I do not want to be just one of the crowd.	71	50.4	38	27.0	8	5.7	12	8.5	12	8.5

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
NONSMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 1 - Health:										
Cigarette smoking can harm the health of teenagers.	998	84.8	147	12.5	13	1.1	15	1.3	4	0.3
I believe the health information about smoking is true.	924	78.5	176	15.0	27	2.3	31	2.6	19	1.6
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	110	9.3	148	12.6	40	3.4	220	18.7	659	56.0
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	913	77.6	185	15.7	29	2.5	37	3.1	13	1.1
Cigarette smoking should be forbidden inside public places.	634	53.9	238	20.2	79	6.7	130	11.0	96	8.2
If I smoke around other people, I take away their right to breathe clean air.	910	77.3	151	12.8	24	2.0	45	3.8	47	4.0
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	84	7.1	127	10.8	135	11.5	295	25.1	536	45.5
People who smoke seem to be more at ease with others.	138	11.7	233	19.8	161	13.7	307	26.1	338	28.7
Smoking cigarettes gives you a good feeling.	37	3.1	81	6.9	132	11.2	164	13.9	763	64.8
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	366	31.1	329	28.0	65	5.5	113	9.6	304	25.8
Cigarette smoking is harmful only if a person inhales.	260	22.1	164	13.9	98	8.3	184	15.6	471	40.0
Teenagers who smoke regularly can quit for good any time they like.	164	13.9	109	9.3	78	6.6	279	23.7	547	46.5

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
NONSMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking:										
Most girls start smoking cigarettes to attract boys.	193	16.4	283	24.0	221	18.8	255	21.7	225	19.1
Most boys start smoking cigarettes to try to become more popular.	432	36.7	330	28.0	95	8.1	181	15.4	139	11.8
If you don't smoke cigarettes, other teenagers put you down.	219	18.6	208	17.7	72	6.1	203	17.2	475	40.4
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	539	45.8	331	28.1	97	8.2	120	10.2	90	7.6
Teenage smokers think they are grown-up, but they really aren't.	657	55.8	287	24.4	90	7.6	76	6.5	67	5.7
Teenage smokers think they look cool, but they don't really.	711	60.4	228	19.4	61	5.2	87	7.4	90	7.6
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	870	73.9	201	17.1	38	3.2	41	3.5	27	2.3
I wish I were older than I am now. (Reverse score)	242	20.6	175	14.9	83	7.1	236	20.1	441	37.5
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	199	16.9	296	25.1	90	7.6	266	22.6	326	27.7
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	996	84.6	111	9.4	21	1.8	29	2.5	20	1.7
I can control the kind of person I will become.	781	66.4	241	20.5	49	4.2	53	4.5	53	4.5
I do not want to be just one of the crowd.	609	51.7	283	24.0	76	6.5	120	10.2	89	7.6

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
TOTAL

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 1 - Health:										
Cigarette smoking can harm the health of teenagers.	1088	82.5	185	14.0	20	1.5	20	1.5	5	0.4
I believe the health information about smoking is true.	1016	77.1	208	15.8	37	2.8	36	2.7	21	1.6
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	139	10.5	180	13.7	46	3.5	237	18.0	716	54.3
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	960	72.8	216	16.4	47	3.6	67	5.1	28	2.1
Cigarette smoking should be forbidden inside public places.	670	50.8	254	19.3	86	6.5	149	11.3	159	12.0
If I smoke around other people, I take away their right to breathe clean air.	985	74.7	185	14.0	30	2.3	55	4.2	63	4.8
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	102	7.7	142	10.8	145	11.0	323	24.5	606	46.0
People who smoke seem to be more at ease with others.	167	12.7	277	21.0	179	13.6	335	25.4	360	27.3
Smoking cigarettes gives you a good feeling.	55	4.2	113	8.6	146	11.1	195	14.8	809	61.4
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	425	32.2	359	27.2	75	5.7	131	9.9	328	24.9
Cigarette smoking is harmful only if a person inhales.	290	22.0	178	13.5	107	8.1	208	15.8	535	40.6
Teenagers who smoke regularly can quit for good any time they like.	194	14.7	128	9.7	86	6.5	306	23.2	604	45.8

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

BOYS
TOTAL

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking:										
Most girls start smoking cigarettes to attract boys.	213	16.2	302	22.9	244	18.5	285	21.6	274	20.8
Most boys start smoking cigarettes to try to become more popular.	464	35.2	352	26.7	105	8.0	204	15.5	193	14.6
If you don't smoke cigarettes, other teenagers put you down.	237	18.0	214	16.2	74	5.6	225	17.1	568	43.1
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	563	42.7	357	27.1	111	8.4	151	11.5	136	10.3
Teenage smokers think they are grown-up, but they really aren't.	694	52.7	313	23.7	106	8.0	106	8.0	99	7.5
Teenage smokers think they look cool, but they don't really.	750	56.9	257	19.5	80	6.1	108	8.2	123	9.3
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	965	73.2	222	16.8	48	3.6	45	3.4	38	2.9
I wish I were older than I am now. (Reverse score)	280	21.2	188	14.3	91	6.9	260	19.7	499	37.9
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	239	18.1	321	24.4	101	7.7	292	22.2	365	27.7
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	1055	80.0	143	10.8	35	2.7	53	4.0	32	2.4
I can control the kind of person I will become.	864	65.6	269	20.4	60	4.6	63	4.8	62	4.7
I do not want to be just one of the crowd.	680	51.6	321	24.4	84	6.4	132	10.0	101	7.7

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
SMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 1 - Health:										
Cigarette smoking can harm the health of teenagers.	100	59.5	52	31.0	11	6.5	5	3.0	0	0.0
I believe the health information about smoking is true.	111	66.1	40	23.8	9	5.4	4	2.4	4	2.4
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	21	12.5	22	13.1	19	11.3	36	21.4	70	41.7
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	79	47.0	40	23.8	20	11.9	20	11.9	9	5.4
Cigarette smoking should be forbidden inside public places.	38	22.6	19	11.3	16	9.5	36	21.4	59	35.1
If I smoke around other people, I take away their right to breathe clean air.	89	53.0	43	25.6	10	6.0	14	8.3	12	7.1
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	18	10.7	14	8.3	17	10.1	36	21.4	83	49.4
People who smoke seem to be more at ease with others.	30	17.9	41	24.4	27	16.1	29	17.3	41	24.4
Smoking cigarettes gives you a good feeling.	16	9.5	42	25.0	19	11.3	30	17.9	61	36.3
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	64	38.1	36	21.4	21	12.5	15	8.9	32	19.0
Cigarette smoking is harmful only if a person inhales.	30	17.9	23	13.7	11	6.5	36	21.4	68	40.5
Teenagers who smoke regularly can quit for good any time they like.	36	21.4	17	10.1	7	4.2	27	16.1	81	48.2

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
SMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking:										
Most girls start smoking cigarettes to attract boys.	10	6.0	17	10.1	12	7.1	38	22.6	91	54.2
Most boys start smoking cigarettes to try to become more popular.	34	20.2	25	14.9	16	9.5	31	18.5	62	36.9
If you don't smoke cigarettes, other teenagers put you down.	12	7.1	18	10.7	10	6.0	27	16.1	101	60.1
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	17	10.1	32	19.0	24	14.3	36	21.4	59	35.1
Teenage smokers think they are grown-up, but they really aren't.	43	25.6	30	17.9	30	17.9	26	15.5	39	23.2
Teenage smokers think they look cool, but they don't really.	46	27.4	43	25.6	20	11.9	33	19.6	26	15.5
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	104	61.9	31	18.5	6	3.6	9	5.4	18	10.7
I wish I were older than I am now. (Reverse score)	54	32.1	21	12.5	7	4.2	14	8.3	72	42.9
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	25	14.9	29	17.3	17	10.1	42	25.0	55	32.7
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	71	42.3	41	24.4	23	13.7	19	11.3	14	8.3
I can control the kind of person I will become.	109	64.9	30	17.9	10	6.0	11	6.5	8	4.8
I do not want to be just one of the crowd.	102	60.7	27	16.1	11	6.5	15	8.9	13	7.7

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
NONSMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 1 - Health:										
Cigarette smoking can harm the health of teenagers.	965	83.7	137	11.9	23	2.0	18	1.6	10	0.9
I believe the health information about smoking is true.	916	79.4	162	14.1	34	2.9	25	2.2	16	1.4
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	108	9.4	130	11.3	50	4.3	197	17.1	668	57.9
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	941	81.6	140	12.1	30	2.6	29	2.5	13	1.1
Cigarette smoking should be forbidden inside public places.	566	49.1	258	22.4	100	8.7	151	13.1	78	6.8
If I smoke around other people, I take away their right to breathe clean air.	914	79.3	151	13.1	28	2.4	26	2.3	34	2.9
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	79	6.9	140	12.1	150	13.0	307	26.6	477	41.4
People who smoke seem to be more at ease with others.	137	11.9	178	15.4	151	13.1	331	28.7	356	30.9
Smoking cigarettes gives you a good feeling.	34	2.9	59	5.1	128	11.1	175	15.2	757	65.7
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	425	36.9	312	27.1	62	5.4	93	8.1	261	22.6
Cigarette smoking is harmful only if a person inhales.	204	17.7	173	15.0	123	10.7	196	17.0	457	39.6
Teenagers who smoke regularly can quit for good any time they like.	176	15.3	136	11.8	78	6.8	230	19.9	533	46.2

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
NONSMOKERS

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking										
Most girls start smoking cigarettes to attract boys.	191	16.6	287	24.9	178	15.4	258	22.4	239	20.7
Most boys start smoking cigarettes to try to become more popular.	362	31.4	307	26.6	133	11.5	196	17.0	155	13.4
If you don't smoke cigarettes, other teenagers put you down.	185	16.0	207	18.0	76	6.6	205	17.8	480	41.6
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	473	41.0	289	25.1	125	10.8	162	14.1	104	9.0
Teenage smokers think they are grown-up, but they really aren't.	661	57.3	276	23.9	79	6.9	84	7.3	53	4.6
Teenage smokers think they look cool, but they don't really.	727	63.1	222	19.3	61	5.3	72	6.2	71	6.2
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	917	79.5	142	12.3	29	2.5	35	3.0	30	2.6
I wish I were older than I am now. (Reverse score)	236	20.5	175	15.2	81	7.0	228	19.8	433	37.6
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	165	14.3	232	20.1	91	7.9	281	24.4	384	33.3
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	1037	89.9	73	6.3	15	1.3	17	1.5	11	1.0
I can control the kind of person I will become.	793	68.8	197	17.1	66	5.7	54	4.7	43	3.7
I don't want to be just one of the crowd.	667	57.8	251	21.8	64	5.6	102	8.8	69	6.0

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
TOTAL

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
Factor 1 - Health:										
Cigarette smoking can harm the health of teenagers.	1065	80.6	189	14.3	34	2.5	23	1.7	10	0.7
I believe the health information about smoking is true.	1027	77.7	202	15.3	43	3.2	29	2.1	20	1.5
There's nothing wrong with smoking cigarettes if you don't smoke too many. (Reverse score)	129	9.7	152	11.5	69	5.2	233	17.6	738	55.8
FACTOR 2 - Rights of the Nonsmoker:										
Cigarette smoke smells bad.	1020	77.2	180	13.6	50	3.8	49	3.7	22	1.6
Cigarette smoking should be forbidden inside public places.	604	45.7	277	20.9	116	8.7	187	14.1	137	10.3
If I smoke around other people, I take away their right to breathe clean air.	1003	75.9	194	14.6	38	2.9	40	3.0	46	3.4
FACTOR 3 - Positive Aspects of Smoking:										
People smoke cigarettes to help them think more clearly.	97	7.3	154	11.6	167	12.6	343	25.9	560	42.3
People who smoke seem to be more at ease with others.	167	12.6	219	16.6	178	13.4	360	27.2	397	30.0
Smoking cigarettes gives you a good feeling.	50	3.8	101	7.6	147	11.1	205	15.5	818	61.9
FACTOR 4 - Rationalization:										
It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit.	489	37.0	348	26.3	83	6.2	108	8.2	293	22.1
Cigarette smoking is harmful only if a person inhales.	234	17.7	196	14.8	134	10.1	232	17.6	525	39.7
Teenagers who smoke regularly can quit for good any time they like.	212	16.0	153	11.6	85	6.4	257	19.4	614	46.4

Exhibit A-12 (Cont.)

DYNAMICS OF SMOKING
Distribution of Responses to Attitude Items

GIRLS
TOTAL

	Strongly Agree		Mildly Agree		Neither Agree Nor Disagree		Mildly Disagree		Strongly Disagree	
	N	%	N	%	N	%	N	%	N	%
FACTOR 5 - Stereotype of Smoking:										
Most girls start smoking cigarettes to attract boys.	201	15.2	304	23.0	190	14.3	296	22.4	330	24.9
Most boys start smoking cigarettes to try to become more popular.	396	30.0	332	25.1	149	11.3	227	17.2	217	16.4
If you don't smoke cigarettes, other teenagers put you down.	197	14.9	225	17.0	86	6.5	232	17.5	581	43.9
FACTOR 6 - Stereotype of Smoker:										
Kids who smoke are show-offs.	490	37.0	321	24.2	149	11.2	198	14.9	163	12.3
Teenage smokers think they are grown-up, but they really aren't.	704	53.2	306	23.1	109	8.2	110	8.3	92	6.9
Teenage smokers think they look cool, but they don't really.	773	58.5	265	20.0	81	6.1	105	7.9	97	7.3
FACTOR 7 - Feeling Toward Authority:										
I feel good knowing I can turn to my parents for advice.	1021	77.2	173	13.1	35	2.6	44	3.3	48	3.6
I wish I were older than I am now. (Reverse score)	290	21.9	196	14.8	88	6.6	242	18.3	505	38.2
A teenager should be able to do the things he wants to do when he wants to do them. (Reverse score)	190	14.3	261	19.7	108	8.1	323	24.4	439	33.2
FACTOR 8 - Control of Future:										
I don't want to get hooked on anything, including cigarettes.	1108	83.8	114	8.6	38	2.8	36	2.7	25	1.8
I can control the kind of person I will become.	902	68.2	227	17.1	76	5.7	65	4.9	51	3.8
I do not want to be just one of the crowd.	769	58.2	278	21.0	75	5.6	117	8.8	82	6.2

APPENDIX B

Description of the Sample

APPENDIX B: DESCRIPTION OF THE SAMPLE

Stage I: Selection of Sample Central Offices

Chilton Research Services' (CRS) Master Telephone Exchange File contains a listing for each of the approximately 30,000 telephone exchanges (central offices) in use in the continental United States. Each telephone exchange is identified by the following parameters: (1) major population center served --city, town, etc.; (2) county in which the population center is located; (3) standard metropolitan statistical area (SMSA) in which the county is located, if applicable; (4) state in which the county is located; and (5) the region that contains the state and county. By employing those parameters, each telephone exchange can be uniquely assigned to one and only one of the 18 sampling strata.

Within each stratum, the list of sample central offices was given a distinct geographical and/or population size ordering. Within each region/metropolitan stratum, the list was ordered in the following manner: (1) each county and its associated telephone exchanges were ranked from largest to smallest based on the total population of its SMSA; (2) within the nonmetropolitan strata, the counties were ranked in state order, and within state in a serpentine fashion--north to south, east to west.

This geographical and population size ordering, in combination with the selection procedure described below, assured the representativeness of the sample and minimized the possibility of introducing geographical bias.

The next step in the selection process was the definition of implicit strata (Zones) that comprised 55 central offices. The definition is a systematic process wherein the first 55 telephone exchanges in a stratum were assigned to Zone 1, the next 55 to Zone 2, etc., until the list was exhausted. Note the last zone may contain fewer than 55 central offices.

Within each zone, two central offices were selected at random. This selection procedure was duplicated for each stratum. The result was a known and equal probability of selection for each and every central office selected. The selection process yielded approximately 1,050 central offices, distributed among the various strata in proportion to the number of central offices contained in each.

Stage II: Selection of Sample Households

Telephone exchanges are clusters of telephone households. The clusters are of varying size. To provide a self-weighting sample of households, the overall probability of selection of every household must be equal, that is,

$$f^T = f_i^1 \cdot f_k^2$$

where the f^T corresponds to the probability of selection of every household, f_i^1 is the probability of selection of the ith cluster (first stage probability of selection), and f_k^2 is the probability of selection of the kth household within the ith cluster (second stage probability of selection). Now, since f^T must be equal for all households, and f_i^1 has already been defined as equal

for all clusters, f_k^2 must be a constant within each sample cluster.

The constant f_k^2 corresponds to a constant sampling rate within each cluster. To achieve this constant rate in the second stage of selection, an equal number of random four-digit prefixes must be generated for each telephone exchange or cluster. Although telephone exchanges vary in the number of total residence numbers assigned in each, every telephone exchange has an equal number of four-digit numbers that are available to be assigned. It follows that the expected "sample take" is equal to the proportion of residence numbers in the ith cluster multiplied by the number of random four-digit suffixes generated. Given a particular sample size, the total number of four-digit suffixes required depends upon the proportion of numbers that are residential or nonworking and the expected refusal rate.

With the CRS system, a large proportion of the nonworking and non-residential numbers in each telephone exchange is identified prior to sample generation. This identification is based on the first two digits of the four-digit suffix. These first two digits are termed "banks," and contain 100 numbers each. Thus, there are 100 possible "banks" in each telephone exchange that may contain assigned residential telephone numbers.

The "banks" containing working residential numbers are designated prior to the sample generation. When the computer program generates the random four-digit suffixes, it matches each against the known "working banks" for the appropriate telephone exchange and rejects those falling outside of the "working banks." By this process, approximately 70% of the nonworking and nonresidential numbers are eliminated before interviewing begins.

A total of approximately 12,000 telephone households were contacted and screened for teenagers aged 12 through 18 years. A total of 2,639 teenagers were interviewed.

Stage III: Selection of Sample Teenagers

A responsible adult in each household was asked a screening question to determine the ages and sex of persons aged 12 through 18 years who lived in the household. If the household included more than one teenager, the CRT program randomly selected one eligible person for the interview. No substitute respondent was accepted. In the event the designated respondent was not at home, a call-back was scheduled as appropriate.

The method of centralized long-distance telephone interviewing used by Chilton Research Services is based on a system of 100 Wide Area Telephone Service (WATS) lines centrally located in the suburban Philadelphia headquarters. This WATS system, called TeleCentral, provides nationwide coverage. All interviewing on the dual survey project was completed from the headquarters installation in Radnor by a regular staff of specially trained interviewers working under close and continuous supervision.

The established computer-assisted CRT Survey Processor System was used for data collection. With the Survey Processor System, the telephone interviewer was on-line in direct hook-up with Chilton's IBM 270/145 computer. The

CRT provided computerized management of the interview and instantaneous data entry in machine language. Specifically, the questionnaire was preprogrammed into the computer system. The questions, together with the valid response codes, were displayed on the cathode ray screen in the proper sequence. The interviewer read the question and recorded a valid response code via the terminal keyboard. The data were automatically stored on disc file, and the next question then appeared on the CRT screen in front of the interviewer.

MAIN QUESTIONNAIRE
FIFTH STUDY
CIGARETTE SMOKING
AMONG TEENAGERS

Chilton Research Services
Radnor, Pennsylvania

Study #8076
December, 1978

MAIN QUESTIONNAIRE

FIFTH STUDY

CIGARETTE SMOKING AMONG TEENAGERS

Sample #_____ (1-5)

OMB #51S78037

Time Int. Began_____AM_____PM

Time Int. Ended_____AM_____PM

1. Have you ever smoked a cigarette? 16-

SKIP TO Q. 3	Yes	0
	No	1

2. Have you ever tried or experimented with cigarette smoking, even a few puffs? 17-

	Yes	0
SKIP TO Q. 22	No	1

3. When was the last time you smoked a cigarette (tried a cigarette)? (DO NOT READ LIST) 18-

Within 30 days	0
31 days to 6 months	1
6 months to 1 year	2
More than 1 year	3
More than 30 days but don't know how long	4

4. How old were you when you first smoked a cigarette?

_____ (Age) 19-20-

5. Do you smoke cigarettes now? 21-

SKIP TO Q. 10	Yes	0
	No	1

6. Have you smoked as many as 5 packs of cigarettes in your lifetime? 22-

	Yes	0
	No	1

7. About how often did you smoke? (READ LIST) 23-

CONT.	Just about every day	0
SKIP TO Q. 9	Every week	1
	Every month	2
	Less often than every month	3

8. How many cigarettes did you smoke in a day? (DO NOT READ LIST)

	24-
1-6 per week (less than 1 per day)	0
1 - 4 per day	1
5 - 9 per day	2
10 - 19 per day	3
20+ per day	4

9. How long has it been since you smoked cigarettes? (RECORD ANSWER IN EQUIVALENT MONTHS)

No. of Months_____

Less than one month	00
8 or more years (96 or more months)	96
Don't remember	98

1 year = 12 months
2 years = 24 months
3 years = 36 months
4 years = 48 months
5 years = 60 months
6 years = 72 months
7 years = 84 months
8 years = 96 months

25-	
26-	

(SKIP TO Q. 22)

10. Have you smoked as many as 5 packs of cigarettes in your life?

	27-
Yes	0
No	1

11. About how often do you smoke? (READ LIST)

		28-
CONT.	Just about every day	0
SKIP TO Q.13	Every week	1
	Every month	2
	Less often than every month	3

12. How many cigarettes do you smoke in a day?

	29-
1-6 per week (Less than 1 per day)	0
1 - 4 per day	1
5 - 9 per day	2
10 - 19 per day	3
20+ per day	4

13. How long have you been smoking? (RECORD ANSWER IN EQUIVALENT MONTHS)

No. of Months_____

Less than one month	00
8 or more years (96 or more months)	96
Don't remember	98

1 year = 12 months
2 years = 24 months
3 years = 36 months
4 years = 48 months
5 years = 60 months
6 years = 72 months
7 years = 84 months
8 years = 96 months

30-	
31-	

14. What brand of cigarettes do you usually smoke?

_____
(Brand)

IF ONLY ONE BRAND MENTIONED, SKIP TO Q. 16.
IF MORE THAN ONE BRAND MENTIONED, ASK Q. 15

15. Which brand do you smoke most?

_____
(Brand)

ASK Q. 16 ABOUT "SINGLE BRAND" IN Q. 14 OR BRAND IN Q. 15

16. What type of cigarettes are they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED," ASK Q. 16a)

Type [ ][ ][ ]
32 33 34

16a. (ASK IF BRAND "UNSPECIFIED" IN Q. 16) Are they . . .

a. Filter? 35-		b. Menthol? 36-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 37-		d. Length 38-	
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 MM?	2
		120 MM	3

FOR OFFICE USE ONLY

TAR VALUE	(39-40)	

IF ONLY ONE BRAND MENTIONED IN Q. 14, SKIP TO Q. 19.
IF MORE THAN BRAND MENTIONED IN Q. 14, ASK Q. 17.

17. Which brand do you smoke next most often?

_____
(Brand)

18. What type of cigarettes are they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED," ASK Q. 18a)

Type [ ][ ][ ]
41 42 43

18a. (ASK IF "BRAND UNSPECIFIED" IN Q. 18)

a. Filter? 44-		b. Menthol? 45-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 46-		d. Length 47-	
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 MM?	2
		120 MM?	3

FOR OFFICE USE ONLY

TAR VALUE	(48-49)	

19. Where do you usually get your cigarettes?

(50-53)

Friend(s)	0
Relative(s)	1
Buy them	2
Other (SPECIFY)	3

20. When you buy cigarettes, what brand do you usually buy?

_____
(Brand)

21. What type of cigarettes are they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED," ASK Q. 21a)

54	55	56

21a. (ASK IF "BRAND UNSPECIFIED" IN Q. 21) Are they . . .

a. Filter? 57-		b. Menthol? 58-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 59-		d. Length 60-	
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 MM?	2
		120 MM?	3

FOR OFFICE USE ONLY:

TAR VALUE	61-62	

ASK EVERYONE

22. What would you say is the possibility that 5 years from now you will be a cigarette smoker? Would you say ... (READ LIST)

63-

Definitely yes	0
Definitely not	1
Probably yes	2
Probably not	3

END CARD #1

80 - (1)

Dup 1-5

23. How many brothers 12 years old and over do you have altogether, both living in your household and those not living in your household? (IF "8 OR MORE" RECORD "8")

_____ (Brothers 12 and over) 6-

(IF "NONE," RECORD "0" AND SKIP TO Q. 27)

24. What are their ages? (What is his age?) (RECORD IN COL. 1 BELOW)

(FOR EACH BROTHER, ASK:)

25. Does your_____year old brother smoke cigarettes? (CIRCLE CORRECT RESPONSE IN COL. 2 BELOW)

(IF RESPONSE IS "YES," ASK:)

26. Does he smoke just about every day or not? (CIRCLE CORRECT RESPONSE IN COL. 3 BELOW)

(REPEAT Q.'s 25 and 26 FOR EACH BROTHER LISTED BELOW IN COL. 1)

Col. 1		Col. 2			Col. 3		
Age of Brothers		Smoke			Daily		
		Yes		No	Yes		No
1	7-8	9-	0	1	10-	0	1
2	11-12	13-	0	1	14-	0	1
3	15-16	17-	0	1	18-	0	1
4	19-20	21-	0	1	22-	0	1
5	23-24	25-	0	1	26-	0	1
6	27-28	29-	0	1	30-	0	1
7	31-32	33-	0	1	34-	0	1
8	35-36	37-	0	1	38-	0	1

27. How many sisters 12 years old and over do you have altogether, both living in your household and those not living in your household? (IF "8 OR MORE" RECORD "8")

_____ (Sisters 12 and over) 39-

(IF "NONE," RECORD "0" AND SKIP TO Q. 31)

28. What are their ages? (What is her age?) (WRITE EACH AGE IN COL. 1 BELOW)

(FOR EACH SISTER, ASK:)

29. Does your_____year old sister smoke cigarettes? (CIRCLE CORRECT RESPONSE IN COL. 2 BELOW)

(IF RESPONSE IS "YES," ASK:)

30. Does she smoke just about every day or not? (CIRCLE CORRECT RESPONSE IN COL. 3 BELOW)

(REPEAT Q.'s 29 AND 30 FOR EACH SISTER LISTED BELOW IN COL. 1).

Col. 1		Col. 2		Col. 3		
		Smoke		Daily		
Age of Sisters		Yes	No	Yes	No	DK
1	40-41	42- 0	1	43- 0	1	8
2	44-45	46- 0	1	47- 0	1	8
3	48-49	50- 0	1	51- 0	1	8
4	52-53	54- 0	1	55- 0	1	8
5	56-57	58- 0	1	59- 0	1	8
6	60-61	62- 0	1	63- 0	1	8
7	64-65	66- 0	1	67- 0	1	8
8	68-69	70- 0	1	71- 0	1	8

END CARD #2
80 - ⊖

(CHECK Q. 6 OF SCREENING. IF THERE IS NO FATHER, SKIP TO Q. 35)

31. Does your father smoke cigarettes?

6-

SKIP TO Q. 34	Yes	0
	No	1
	Don't Know	8

32. Did he ever smoke cigarettes?

7-

	Yes	0
SKIP TO Q. 35	No	1

33. How long ago did he quit? (READ LIST)

8-

Less than 1 year ago	0
1 year to less than 2 years ago	1
2 years to less than 3 years ago	2
3 or more years ago	3

34. Does he (did he) smoke just about every day or not?

9-

Yes	0
No	1
Don't Know	8

(CHECK Q. 6 OF SCREENING. IF THERE IS NO MOTHER, SKIP TO Q. 39)

35. Does your mother smoke cigarettes?

10-

SKIP TO Q. 38	Yes	0
	No	1
	Don't Know	8

36. Did she ever smoke cigarettes?

11-

	Yes	0
SKIP TO Q. 39	No	1
	Don't Know	8

37. How long ago did she quit? (READ LIST)

12-

Less than 1 year ago	0
1 year to less than 2 years ago	1
2 years to less than 3 years ago	2
3 or more years ago	3

38. Does she (did she) smoke just about every day or not?

13-

Yes	0
No	1
Don't Know	8

ASK EVERYONE

39. Would you say smoking is harmful to health?

14-

Yes	0
No	1
Don't Know	8

40. During the past year, that is, the past 12 months, did you work all year round, or only part of the year, or not at all?

15-

	All year	0
	Part of year	1
SKIP TO Q. 42	Not at all	2

41. When you worked, did you work part-time or full-time?

16-

Part-time	0
Full-time	1

42. What grade are you now at school?

17-

SKIP TO Q. 45	6th or below	0
	7th	1
	8th	2
SKIP TO Q. 44	9th	3
	10th	4
	11th	5
	12th	6
SKIP TO Q. 45	College	7
CONTINUE	Not in school	8

43. What was the last grade you completed?

18-

6th or below	0
7th	1
8th	2
9th	3
10th	4
11th	5
12th	6
Some college	7

(SKIP TO Q. 45)

44. What course are you taking in school? Are you in a course that prepares you for college or some other course?

19-

College preparatory	0
Other	1

45. Do (did) you attend a public, parochial school, or some other private school?

20-

Public	0
Parochial	1
Private	2

46. How far did your father go in school?

21-

No high school	0
Some high school	1
High school graduate	2
Some college	3
College graduate	4
Post college graduate	5
Technical/Trade	6
Don't Know	8

47. How far did your mother go in school?

22-

No high school	0
Some high school	1
High school graduate	2
Some college	3
College graduate	4
Post college graduate	5
Technical/Trade	6
Don't Know	8

48. How many of your <u>four</u> best friends have at least experimented with smoking cigarettes?

23-

SKIP TO Q. 51	None experimented	0
SKIP TO Q. 50	One	1
CONTINUE	Two	2
	Three	3
	Four	4
SKIP TO Q. 51	No four best friends	6

49. Of these_____friends, how many have just experimented, how many smoke occasionally, and how many smoke regularly?

Friends	Col. 1 Experimented	Col. 2 Occasionally	Col. 3 Regularly
None	24- 0	25- 0	26- 0
One	1	1	1
Two	2	2	2
Three	3	3	3
Four	4	4	4

(NOW SKIP TO Q. 51)

(COLUMNS 1, 2 & 3 MUST EQUAL NUMBER IN Q. 48)

50. Has this friend just experimented, or does he (she) smoke occasionally, or regularly?

	27-
Experimented	0
Occasionally	1
Regularly	2

CARD #4 DUP 1-5

ASK OF ALL RESPONDENTS

51. Now, I'm going to read some statements about cigarette smoking. As I read each statement, please tell me whether you agree, disagree, or neither agree nor disagree.

(READ STATEMENT): Do you agree, disagree or neither agree nor disagree?
(IF AGREE, ASK:) Do you strongly agree or mildly agree?
(IF DISAGREE, ASK:) Do you strongly disagree or mildly disagree?
(IF NEITHER AGREE OR DISAGREE:) GO TO NEXT STATEMENT.

	Strongly Agree	Mildly Agree	Neither Agree Nor Disagree	Mildly Disagree	Strongly Disagree
A. Cigarette smoking can harm the health of teenagers	6- 5	4	3	2	1
B. Cigarette smoke smells bad	7- 5	4	3	2	1
C. Most girls start smoking cigarettes to try to attract boys	8- 5	4	3	2	1
D. People smoke cigarettes to help them think more clearly	9- 5	4	3	2	1
E. Kids who smoke are show-offs	10- 5	4	3	2	1
F. I feel good knowing I can turn to my parents for advice	11- 5	4	3	2	1
G. I don't want to get hooked on anything, including cigarettes	12- 5	4	3	2	1
H. It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit	13- 5	4	3	2	1
I. I believe the health information about smoking is true	14- 5	4	3	2	1
J. Cigarette smoking should be forbidden inside public places	15- 5	4	3	2	1
K. Most boys start smoking cigarettes to try to become more popular	16- 5	4	3	2	1
L. People who smoke seem to be more at ease with others	17- 5	4	3	2	1
M. Teenage smokers think they are grown-up, but they really aren't	18- 5	4	3	2	1
N. I wish I were older than I am now	19- 1	2	3	4	5
O. I can control the kind of person I will become	20- 5	4	3	2	1

Q. 51 (CONTINUED)

	Strongly Agree	Mildly Agree	Neither Agree Nor Disagree	Mildly Disagree	Strongly Disagree
P. Cigarette smoking is harmful only if the person inhales	21- 1	2	3	4	5
Q. There's nothing wrong with smoking cigarettes as long as you don't smoke too many	22- 5	4	3	2	1
R. If I smoke around other people, I take away their right to breathe clean air	23- 5	4	3	2	1
S. If you don't smoke cigarettes, other teenagers put you down	24- 5	4	3	2	1
T. Smoking cigarettes gives you a good feeling	25- 5	4	3	2	1
U. Teenage smokers think they look cool, but they don't really	26- 5	4	3	2	1
V. A teenager should be able to do the things he wants to do when he wants to do them	27- 1	2	3	4	5
W. I do not want to be just one of the crowd	28- 5	4	3	2	1
X. Teenagers who smoke regularly can quit for good any time they like	29- 5	4	3	2	1

END CARD #4

80 - (4)

INSTRUCTIONS: (ASK SECTION 1, 2 OR 3 ACCORDING TO CORRECT SMOKING STATUS ON PAGE 1 OF MAIN QUESTIONNAIRE)

SECTION 1

NEVER SMOKED ("NO" TO Q. 2)

(CHECK Q. 6 OF SCREENING. IF THERE IS NO FATHER, SKIP TO Q. 53)

52. How would your father feel if you started smoking? (READ CHOICES)

28-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

53. (CHECK Q. 6 OF SCREENING. IF THERE IS NO MOTHER, TERMINATE BELOW)

How would your mother feel if you started smoking? (READ CHOICES)

29-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

CARD 5

RECORD RESPONDENT'S NAME

(6-24)

VERIFY TELEPHONE NUMBER, RECORD BELOW, THEN TERMINATE

(25-34)

Thank you very much. It's been a pleasure talking to you.

INTERVIEWER: FILL IN INFORMATION ON LAST PAGE

SECTION II

CURRENT SMOKER ("YES" TO Q. 5)

(CHECK Q. 6 OF SCREENING. IF THERE IS NO FATHER, SKIP TO Q. 56)

54. Does your father know that you smoke?

30-

Yes	0
No	1
Don't Know	8

55. How does (would) your father feel about your smoking? (READ CHOICES)

31-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

(CHECK Q. 6 OF SCREENING. IF THERE IS NO MOTHER, SKIP TO Q. 58)

56. Does your mother know that you smoke?

32-

Yes	0
No	1
Don't Know	8

57. How does (would) your mother feel about your smoking? (READ CHOICES)

33-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

SECTION II (Cont.)

CURRENT SMOKER

58. On the average about how much do you pay for a pack of cigarettes?

_____¢
(34-36)

SKIP TO CLOSING	Don't Know	998

59. If the cost of a pack of cigarettes were (DOUBLE AMOUNT IN Q. 58) (REFER TO CHART) would you be likely or unlikely to smoke cigarettes?
(IF LIKELY: ASK) Would you be very or somewhat likely?
(IF UNLIKELY: ASK) Would you be very or somewhat unlikely?

		37-
	Very likely	1
	Somewhat likely	2
SKIP TO CLOSING	No opinion/don't know	3
	Somewhat unlikely	4
	Very unlikely	5

60. If the cost of a pack of cigarettes were (TRIPLE AMOUNT IN Q. 58) (REFER TO CHART) would you be likely or unlikely to smoke cigarettes?
(IF LIKELY: ASK) Would you be very or somewhat likely?
(IF UNLIKELY: ASK) Would you be very or somewhat unlikely?

	38-
Very likely	1
Somewhat likely	2
No opinion/don't know	3
Somewhat unlikely	4
Very unlikely	5

RECORD RESPONDENT'S NAME CARD 5

(6-24)

VERIFY TELEPHONE NUMBER, RECORD BELOW, THEN TERMINATE

(25-34)

Thank you very much. It's been a pleasure talking to you.

INTERVIEWER: FILL IN INFORMATION ON LAST PAGE

SECTION III

FORMER SMOKER ("NO" TO Q. 5)
CHECK Q. 6 OF SCREENING. IF THERE IS NO FATHER, SKIP TO Q. 63

61. Did your father know that you smoked?

39-

Yes	0
No	1
Don't Know	8

62. How did your father feel (how would your father have felt) about your smoking?

40-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

(CHECK Q. 6 OF SCREENING. IF THERE IS NO MOTHER, TERMINATE BELOW)

63. Did your mother know that you smoked?

41-

Yes	0
No	1
Don't Know	8

64. How did your mother feel (how would your mother have felt) about your smoking?

42-

	Forbid it	0
	Strongly disapprove	1
	Mildly disapprove	2
	Be indifferent	3
	Approve	4
DO NOT READ	Don't Know	8

CARD 3

RECORD RESPONDENT'S NAME:

(6-24)

VERIFY TELEPHONE NUMBER,
RECORD AT RIGHT, THEN TERMINATE

(25-34)

Thank you very much. It's been a pleasure talking to you.

INTERVIEWER: FILL IN INFORMATION ON LAST PAGE

FROM SAMPLE CARDS

REGION:

	43-
New England	1
Middle Atlantic	2
East North Central	3
West North Central	4
South Atlantic	5
East South Central	6
West South Central	7
Mountain	8
Pacific	9

STATE CODE _____
44-45

COUNTY CODE _____
46-48

MET CODE _____
49-51

NO MET CODE	000

INTERVIEWER NAME

_____

DATE INTERVIEW COMPLETED:

JANUARY	52-54
1	001
2	002
3	003
4	004
5	005
6	006
7	007
8	008
9	009
10	010
11	011
12	012
13	013
14	014
15	015
16	016
17	017
18	018
19	019
20	020
21	021
22	022
23	023
24	024
25	025
26	026
27	027
28	028
29	029
30	030
31	031

FEBRUARY	
1	032
2	033
3	034
4	035
5	036
6	037
7	038
8	039
9	040
10	041
11	042
12	043
13	044
14	045
15	046

END CARD #3
80 - (3)

PART II

Longitudinal Study
1974 - 1979

II.1 BACKGROUND

All the national surveys of teenage smoking conducted before 1979 have been snapshots--studies of young people at a given time. Data on past behavior were necessarily based on retrospection, which is often unreliable. More important, no available study related characteristics measured in the 12- to 18-year-olds to later smoking behavior. It is entirely possible, for example, that the differences between very young smokers and nonsmokers disappear as the teenagers move into young adulthood. There has long been a need for information about which teenagers are likely to become smokers, and which teenagers will never go beyond the stage of experimenting with cigarettes.

In an effort to meet this need, a sample of those who were interviewed in the 1974 study was interviewed again in 1979. In the five years since the original interviews, these young people had reached the age group, 17 to 23, where most had passed the stage of experimentation and had become identified as either smokers or nonsmokers. It was thus possible to investigate the ways in which characteristics of teenagers relate to their smoking behavior as they move into adulthood.

II.2 DESCRIPTION OF THE SAMPLE

Comparison of the Follow-up Respondents with the 1974 Survey Sample

Of the 2,553 teenagers interviewed in 1974, 1,194 (46.8%) were interviewed again in 1979. A slightly larger proportion of boys (47.6%) than of girls (45.9%) was reached for reinterview. There was also a relationship between age and accessibility for reinterview; older teenagers were less accessible. For boys, the proportion interviewed dropped from 48.8% of those who were 12 to 14 years old in 1974 to 44.9% of those who were 17 and 18 years old then. The decrease was even more pronounced for the girls --from 51.2% for the youngest age group to 39.5% for the oldest age group. This was to be expected since the older teenagers were more likely to have moved away from the parental home and, for girls, to have changed their names through marriage. Since smoking behavior is related to age, fewer of those who were regular smokers in 1974 were followed than of those who had never smoked or who had only experimented with cigarettes. Even in each age group, however, 1974 smokers were less likely to be available than were nonsmokers. The reason for this is not readily apparent, unless smokers tend to be more independent than nonsmokers. For example, they are more likely to work, more likely to express a desire for independence, more likely to leave school, etc.

The follow-up group is, then, not completely representative of the group of 1974 interviewees from which it was drawn, nor is it representative of 17- to 23-year-olds in 1979. Comparisons of the 1974 survey sample with the follow-up respondents are reported in Exhibit 11.

Characteristics of the 1979 Follow-up Respondents[1]

The 1979 follow-up respondents were categorized into four groups on the basis of their 1974 and 1979 smoking behavior: (1) those who were regular smokers in both 1974 and 1979; (2) those who were smokers in 1974 but were nonsmokers in 1979; (3) those who were nonsmokers in 1974 but were smokers in 1979; (4) those who were nonsmokers in 1974 and 1979. For the purposes of this analysis, only current regular smokers, as defined in Part I, were categorized as smokers; all others, including experimenters, ex-smokers, and occasional smokers, were categorized as nonsmokers. A respondent who was a nonsmoker at the time of the 1974 survey and at the time of the 1979 survey would be placed in the fourth category described above, although he might

[1] Because of the nature of the analyses in this study, N's are necessarily small; percentages are reported, then, on N's less than 25. The reader is cautioned, in reading these percentages, to examine the N's before making interpretations of the data.

Exhibit 11

DESCRIPTION OF 1979 FOLLOW-UP RESPONDENTS BY SEX AND 1974 AGE AND SMOKING BEHAVIOR

1974 Age and Smoking Behavior	Boys			Girls		
	N in 1974 Sample	N of Follow-up Interviews	% Followed	N in 1974 Sample	N of Follow-up Interviews	% Followed
12-14						
Never Smoked or Experimented only	496	245	49.4	496	257	51.8
Current Regular Smoker	23	8	34.8	27	14	51.9
Ex-Smoker	28	14	50.0	26	10	38.5
Total	547	267	48.8	549	281	51.2
15-16						
Never Smoked or Experimented Only	253	132	52.2	255	118	46.3
Current Regular Smoker	66	27	40.9	73	27	37.0
Ex-Smoker	45	18	40.0	33	15	45.4
Total	364	177	48.6	361	160	44.3
17-18						
Never Smoked or Experimented Only	208	102	49.0	230	105	45.7
Current Regular Smoker	113	47	41.6	95	29	30.5
Ex-Smoker	44	15	34.1	42	11	26.2
Total	365	164	44.9	367	145	39.5
Total All Ages						
Never Smoked or Experimented Only	957	479	50.1	981	480	48.9
Current Regular Smoker	202	82	40.6	195	70	35.9
Ex-Smoker	117	47	40.2	101	36	35.6
Total	1276	608	47.6	1277	586	45.9

have started smoking and stopped smoking in the five years between the two surveys.

The number of respondents in each category was follows:

(1)	Smoker in both 1974 and 1979 S→S	111
(2)	Smoker in 1974; nonsmoker in 1979 S→NS	41
(3)	Nonsmoker in 1974; smoker in 1979 NS→S	217
(4)	Nonsmoker in both 1974 and 1979 NS→NS	825

Exhibit 12 presents in more detail the composition of the follow-up group. Of the 1,194 respondents, 152 were smokers in 1974 and 1,042 were nonsmokers. By 1979, 41 or 27% of the smokers had become nonsmokers, while 111 or 73% had remained smokers. During the same period, 20.8% of the nonsmokers had become smokers, while 79.2% had remained nonsmokers. Thus the proportion of smokers who had become nonsmokers was larger than the proportion of nonsmokers who had become smokers.

Among boys, the proportion who changed from nonsmoker to smoker decreased with each age group, so that those who had reached age 17 or 18 without becoming smokers were not very likely to change in the next five years. Only 15.4% did so, compared with 21.6% of the 12- to 14-year-olds. The pattern for girls is not quite so clearcut. Those nonsmokers who were 15 and 16 years old in 1974 constituted the age group among which the largest proportion became smokers by 1979. Those girls who were younger (12 to 14 years in 1974) and those who were older (17 to 18 years in 1974) showed the least propensity for changing from nonsmoker to smoker.

The responses to the questions in the 1979 interview of the four groups are described in Exhibits C-1 through C-7. The responses appear down the side of each table (stubs), while the age and sex of the respondents appear across the top of each table (headings). The 1974 data on teenagers were reported for three age groups: 12-14, 15-16, and 17-18. Thus, the 1979 data are reported for age groups 17-19, 20-21, and 22-23.

Exhibit C-1 shows responses to the question, "What would you say is the possibility that five years from now you will be a cigarette smoker?" This question, when asked of teenagers, has been found to be an excellent predictor of future smoking behavior. (See Section II.3) There is little information about its predictive ability when asked of young adults whose habits have largely been formed. However, the responses themselves are very similar to those of teenagers. About half the smokers say "definitely yes" or "probably yes," while only 2% of the nonsmokers answer in this way. A slightly larger proportion (5.4%) of the 1979 national sample of teenage nonsmokers answered "definitely" or "probably yes." (See Page 19, Part I.) Possibly the young adults who do not smoke are surer than the teenagers, and realistically so, that they will not become smokers.

All national studies of teenagers have shown a relationship

Exhibit 12

1974 AND 1979 SMOKING STATUS BY AGE AND SEX

1974 Age and Smoking Status	Boys					Girls					Total Boys and Girls				
		1979 Smoking Status					1979 Smoking Status					1979 Smoking Status			
		Smokers		Non-smokers			Smokers		Non-smokers			Smokers		Non-smokers	
	Total	N	%	N	%	Total	N	%	N	%	Total	N	%	N	%
12-14															
S	8	8	100.0	0	0.0	14	10	71.4	4	28.6	22	18	81.8	4	18.2
NS	259	56	21.6	203	78.4	267	61	22.8	206	77.2	526	117	22.2	409	77.8
15-16															
S	27	17	63.0	10	37.0	27	20	74.1	7	25.9	54	37	68.5	17	31.5
NS	150	29	19.3	121	80.7	133	36	27.1	97	72.9	283	65	23.0	218	77.0
17-18															
S	47	34	72.3	13	27.7	29	22	75.9	7	24.1	76	56	73.7	20	26.3
NS	117	18	15.4	99	84.6	116	17	14.7	99	85.3	233	35	15.0	198	85.0
Total															
S	82	59	72.0	23	28.0	70	52	74.3	18	25.7	152	111	73.0	41	27.0
NS	526	103	19.6	423	80.4	516	114	22.1	402	77.9	1042	217	20.8	825	79.2

S = Smoker
NS = Nonsmoker

between smoking behavior of older siblings and smoking of the teenager. Until now, there has been little or no information about how far this influence extends into early adulthood. The data in Exhibit C-2 indicate that the influence is much stronger in the early teen years than in the later years. In the youngest age groups (those who were 12-14 in 1974; 17-19 in 1979), those 1974 nonsmokers who reported in 1979 that they had an older sibling who smoked were much more likely to have changed from nonsmoker to smoker than those whose older siblings did not smoke. Of those 12- to 14-year-old smokers in 1974 with at least one sibling who smoked, 29.1% were smokers in 1979 compared with 16.8% of those 1974 nonsmokers who reported in 1979 that they had at least one older sibling but no older sibling smoked. A difference is still observed in the 15- to 16-year-olds, but it is not as great (23.9% of those with at least one older sibling who smokes; 15.2% of those with siblings who do not smoke). If the teenager is a nonsmoker by the time he reaches 17 or 18, the smoking of an older sibling has little or no influence. Proportions are 15.1% for those with an older sibling who smokes and 17.6% for those with no older sibling who smokes. Patterns for boys and girls are similar, except in the 17- to 18-year-old group, where boys with older siblings who do not smoke appear to be more likely to become smokers, while with 17- to 18-year-old girls there is practically no difference. It must be remembered that the siblings' smoking status reported here is the 1979 smoking status, which may, of course, have changed during the years between the two surveys.

The relationship between the respondent's smoking behavior and that of his or her peers persists throughout the teen years, however. In 1979, the follow-up group was asked how many of their four best friends were smokers. Of those who reported that one or more of these friends were smokers, 25.7% were in the NS→S category, while only 4.7% of those who said none was a regular smoker were in this category. The relationship is strong in all age groups but most pronounced in the youngest age group, where the percentages are 32.2% and 3.1%, and least pronounced in the oldest age group, where the percentages are 15.4% and 4.3%. At the other extreme, among those reporting "none (of their four best friends) is a regular smoker," 92.8% were in the NS→NS category (Exhibit C-3).

Interviewees were asked, "As far as you are aware, has cigarette smoking affected the health of anyone you personally know, such as a family member, a friend, yourself, someone at work, or some other acquaintance?" (Exhibit C-4). Two-thirds answered "yes." Those in the oldest age group, the 22- and 23-year-olds, were more likely to answer "yes"; three-fourths did so. It is to be expected that the older respondents are more likely to be acquainted with illness. Also to be expected is that there will be fewer "yes" answers from smokers than from nonsmokers, either because they might deny personal knowledge of a causal relationship between smoking and illness or because they would not smoke if they had such personal knowledge. This expectation was not completely borne out. Only those smokers who had not been smokers five years earlier, the NS→S group, showed any appreciable difference from the other groups. They had fewer "yes" responses in all age groups.

A closely related question dealt with personal knowledge of someone who has had specific diseases widely known to be related to cigarette smoking--coronary heart disease, lung cancer, and emphysema or chronic bronchitis (Exhibit C-5). One-third of the group had known someone with heart disease; one-third had known someone with lung cancer; and nearly one-half had known someone with emphysema or chronic bronchitis. Again, this knowledge was related to age, with more of the 22- and 23-year-olds reporting knowing someone with these illnesses than of those in the younger age groups. Differences among groups classified by smoking behavior were small, with smokers slightly more likely than nonsmokers to claim knowledge of someone with each of the three diseases.

The relationship between educational attainment and smoking change is relevant only if each age group is considered separately. For example, nearly three-fourths (70.8%) of those in the 17- to 19-year age group are still in school, while fewer than one-fourth (23.3%) of the 22- and 23-year-olds are still in school. Exhibit 13 shows the percentage of those at each educational level who fall into each of the four smoking change groups (Exhibits C-6 and C-7 give details).

Of the 17- to 19-year-olds still in school, half are in high school, the other half are in college or vocational school. Of those not in school, the majority (59.4%) finished high school, 31.3% did not complete high school, and 9.4% attended college. Comparing those still in high school, below grade 12, with those who dropped out before finishing high school, we see a large difference in smoking behavior; 17.0% of those still in school at this level are smokers, while 38.0% of those who dropped out are smokers. While the numbers of cases are small (47 and 50), the difference is statistically significant. Also, those who are still in high school are less likely to be smokers than those who finished high school but have not continued their education (19.5% and 40.0%, respectively). Of those still in high school, none are in the S→S category; that is, none was smoking at the time of both surveys. Of those not in school, who have not gone beyond high school, 9.0% are classified in the S→S category. Only 2.3% of those in college were in the S→S category, and only 14.8% were in the NS→S category. There were too few in this age group who had attended college but were not now in school for comparison. Overall, the difference between those in school and those not in school was pronounced. Those not in school had a higher percentage in the S→S category than those in school (8.1% and 1.3%, respectively) and a higher percentage in the NS→S category (30.6% and 17.5%, respectively). The total proportion of smokers was more than twice as great among those not in school as among those in school (38.8% and 18.8%, respectively).

A much smaller proportion of those 20 and 21 years old were in school (40.6%), which, of course, is to be expected. Nearly all of these (94.2%) were in college; the others were in trade schools and the like. Of those not in school, about two-thirds did not continue their education beyond high school. There was little difference in smoking categories between those who had not gone beyond high school and those who had. There were, however, larger differences between those who were still in college and those who were not in school. Of

Exhibit 13

HIGHEST EDUCATIONAL LEVEL
BY
SMOKING CHANGE CATEGORIES

Age 17-19

Educational Level	Smokers-Smokers		Smokers-Nonsmokers		Non-smokers-Smokers		Non-smokers-Nonsmokers		Total	
	N	%	N	%	N	%	N	%	N	%
Less than Grade 12										
A*	0	0.0	0	0.0	8	17.0	39	83.0	47	100.0
B**	5	10.0	0	0.0	14	28.0	31	62.0	50	100.0
Grade 12										
A	0	0.0	0	0.0	29	19.5	120	80.5	149	100.0
B	8	8.4	3	3.2	30	31.6	54	56.8	95	100.0
Some College or More										
A	4	2.3	1	0.6	26	14.8	145	82.4	176	100.1
B	0	0.0	0	0.0	5	33.4	10	66.6	15	100.0
All Other+	1	6.2	0	0.0	5	31.2	10	62.5	16	100.0
Total										
A	5	1.3	1	0.3	68	17.5	314	80.9	388	100.0
B	13	8.1	3	1.9	49	30.6	95	59.4	160	100.0

*A In school--present grade
**B Not in school--highest grade completed
+Vocational, commercial, etc.

Exhibit 13 (Cont.)

HIGHEST EDUCATIONAL LEVEL
BY
SMOKING CHANGE CATEGORIES

Age 20-21

Educational Level	Smokers-Smokers		Smokers-Nonsmokers		Non-smokers-Smokers		Non-smokers-Nonsmokers		Total	
	N	%	N	%	N	%	N	%	N	%
Less than Grade 12										
A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
B	9	42.8	1	4.7	7	33.3	4	19.0	21	100.0
Grade 12										
A	0	0.0	0	0.0	0	0.0	0	0.0	0	100.0
B	15	13.5	5	4.5	27	24.3	64	57.7	111	100.0
Some College or More										
A	4	3.1	5	3.9	15	11.6	105	81.4	129	100.0
B	9	13.2	6	8.8	15	22.1	38	55.9	68	100.0
All Other	0	0.0	0	0.0	1	12.5	7	87.5	8	100.0
Total										
A	4	2.9	5	3.6	16	11.7	112	81.8	137	100.0
B	33	16.5	12	6.0	49	24.5	106	53.0	200	100.0

Exhibit 13 (Cont.)

HIGHEST EDUCATIONAL LEVEL
BY
SMOKING CHANGE CATEGORIES

Age 22-23

Educational Level	Smokers-Smokers		Smokers-Nonsmokers		Non-smokers-Smokers		Non-smokers-Nonsmokers		Total	
	N	%	N	%	N	%	N	%	N	%
Less than Grade 12										
A	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
B	12	48.0	2	8.0	3	12.0	8	32.0	25	100.0
Grade 12										
A	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
B	28	24.6	9	7.9	15	13.2	62	54.4	114	100.1
Some College or More										
A	6	10.5	4	7.0	9	15.8	38	66.7	57	100.0
B	8	8.2	4	4.1	8	8.2	78	79.6	98	100.0
All Other	1	7.1	1	7.1	0	0.0	12	85.7	14	100.0
Total										
A	8	11.1	5	6.9	9	12.5	50	69.4	72	100.0
B	48	20.3	15	6.3	26	11.0	148	62.4	237	100.0

those not in school, 41.0% were smokers, while among those in college, only 14.7% were smokers. The differences were also apparent when change categories were considered. Those not in school were much more likely to have been smokers five years ago as well as now. Of those not in school, 16.5% were in the S→S category, compared with 3.1% of those in college. More of the former were in the NS→S category also--24.5% and 11.6%, respectively.

Most of the 22- and 23-year-olds (76.6%) were not in school. Of those who were, 79.2% were in college, and the others were in some other type of school. In this age group, those who were still in college had a higher smoking rate than those who had attended college but were no longer in school (26.3% and 16.3%, respectively). The highest smoking rate was among those whose education did not extend beyond high school (41.7%). (See Exhibit C-7.)

These findings bear out those in the national survey of teenagers which revealed the relationship between educational aspirations and smoking behavior. While there may be sex differences, our sample is too small for an age/sex break to be meaningful.

Measures of the dynamics of teenage smoking have been described earlier. (See Part I, Page 20.) These measures are available for both the 1974 and 1979 national samples, as well as for that part of the 1974 sample that was interviewed a second time in 1979. For this latter group, two sets of measures are available--those obtained in 1974 and those obtained in 1979. The means of those scores are reported for each of the smoking change groups, along with the means of the scores of the total 1974 national sample and of the total 1979 national sample of teenagers (Exhibit 14).

If the teenagers who were accessible for follow-up interviews were a representative sample of the total 1974 group, the mean 1974 scores for the follow-up group should be similar to the scores of the total 1974 national sample. From Exhibit 14 we can see that the means of measures otained in 1974 for both smokers and nonsmokers are very close on all factors except Factor 4, Rationalization. On this factor, scores for smokers are slightly higher for the total sample than for the follow-up sample, and scores for nonsmokers are slightly lower for the total sample than for the follow-up sample. No explanation is readily available for this slight deviance.

In comparing the scores of the 1979 follow-up sample with those of the 1979 cohort sample of teenagers, we do not expect the same kind of correspondence, since the follow-up sample is five years older. It is surprising that there is as much correspondence as there is, since the instrument was designed for teenagers rather than for young adults. The means on the first four factors, however, are similar. For the next two factors, on which a person with a high score sees teenage smoking and the teenage smoker somewhat negatively, the older smoker has slightly higher scores and the older nonsmoker slightly lower scores than the 1979 teenage sample. The young adult is apparently not seeing himself in these statements, as is the teenager; thus, he is more willing to express negative attitudes toward the teenager who smokes. On Factor 7, Feeling Toward Authority, scores for both smokers and nonsmokers

Exhibit 14

DYNAMICS OF TEENAGE SMOKING MEAN SCORES

		1974-1979 Longitudinal Sample*				1974 and 1979 Teenage Cohort Sample**	
		Smoker to Smoker	Smoker to Nonsmoker	Nonsmoker to Smoker	Nonsmoker to Nonsmoker	Smoker	Nonsmoker
Factor 1:	Health						
1974		11.86+	11.98+	12.79+	13.40+	11.84+	13.19+
1979		12.93+	14.17+	13.12+	13.98+	12.46+	13.46+
Factor 2:	Nonsmokers' Rights						
1974		9.40	8.98	11.93	12.77	9.50	12.59
1979		10.77	12.32	10.89	13.47	10.40	13.25
Factor 3:	Positive Aspects of Smoking						
1974		7.90	7.24	6.82	6.39	7.78	6.51
1979		6.97	6.39	7.33	6.12	7.76	6.34
Factor 4:	Rationalization						
1974		8.76	8.83	9.00	8.33	8.93	7.86
1979		7.62	7.83	7.92	7.30	8.47	8.21
Factor 5:	Stereotype of Smoking						
1974		6.82	5.41	9.12	8.86	6.65	8.93
1979		7.21	7.17	6.89	8.45	6.70	9.02
Factor 6:	Stereotype of Smoker						
1974		8.25	7.07	11.27	11.97	8.44	11.75
1979		11.04	11.56	10.25	11.80	8.85	12.27
Factor 7:	Feeling Toward Authority						
1974		10.28	10.95	10.93	11.25	10.40	11.17
1979		12.86	12.66	11.88	12.32	10.72	11.29
Factor 8:	Control of Future						
1974		11.85	12.29	12.87	13.16	12.06	13.04
1979		13.03	13.85	12.50	13.88	12.10	13.28

* Mean scores of the same group at different points in time + Age at time of survey 12-18

** Mean scores of two different groups + Age at time of survey 17-23

are higher in the older group than in the younger. Perhaps these young adults are now identifying more with the adult point of view than with that of the teenager.

Next, we examine the changes in smoking mean factor scores as they relate to changes in smoking behavior. While some changes are expected to have taken place simply because of age and environmental changes, others may be associated with changes in smoking behavior. While it is impossible to determine completely from the data which changes are attributable to which variables, some interpretations do suggest themselves.

Factor 1 measures the extent to which the respondents have accepted information about the relationship of smoking to health. The mean scores on this factor, already high, have shown increases in all groups. Also, the means of both smokers and nonsmokers in the 1979 teenage cohort group are higher than those of the 1974 teenage cohort group. This suggests that these changes reflect a change in the environment; people are more cognizant of, and more willing to accept, the fact that smoking is harmful to health.

Means of scores of Factor 2, Nonsmokers' Rights, have also increased in all groups, including the two teenage cohort samples. These changes, too, probably reflect changes in the environment unrelated to smoking status. People, both smokers and nonsmokers, have become more sensitized to the effects of cigarette smoke on the nonsmoker.

There was practically no change from 1974 to 1979 in the mean scores of the national samples of teenagers on Factor 3, Positive Aspects of Smoking. However, there were some changes in scores in the four smoking status groups. Those who were smokers both in 1974 and 1979, the S→S category, appeared to view smoking somewhat less positively in 1979 than they did in 1974. Those who changed from nonsmoker to smoker--those in the NS→S category, however, viewed it more positively in 1979 than in 1974. One is inclined to ask whether they changed their attitudes first and began smoking later, or whether they began smoking first and changed their attitudes later to reduce dissonance. This question is not answered by the data. The same question might be asked of those who moved from smoker to nonsmoker--those in the S→NS category, who viewed smoking less positively in 1979 than in 1974. There was practically no change in attitudes of those who were nonsmokers at both times.

Factor 4, Rationalization, shows decreased mean scores in all follow-up groups between 1974 and 1979. Since this kind of change was not observed between teenagers in 1974 and teenagers in 1979, we can surmise that the need to rationalize teenage smoking decreases as respondents grow from teenage to early adulthood.

On Factor 5, Stereotype of Smoking, there is little difference in scores of the national samples of teenagers in 1974 and 1979. In the longitudinal groups, however, some changes were noticed. Those who were smokers in 1974 and had low scores relative to those of nonsmokers showed increases in 1979. On the other hand, those who were nonsmokers in 1974 and had relatively high scores showed decreases. These changes resulted in

mean scores that were practically the same across all four smoking status groups, the difference between smokers and nonsmokers having disappeared in the 1979 sample. Apparently, in the young adult group, the stereotype of teenage smoking is independent of either current or past smoking behavior.

Scores on Factor 6, Stereotype of the Smoker, showed the same pattern as those on Factor 5. When the respondent was a teenager, the nonsmoker was more likely than the smoker to see the teenage smoker as a troublemaker and a show-off, but five years later, this difference had disappeared. Changes, then, appear to be a function of age rather than of any changes in smoking behavior.

On Factor 7, Feeling Toward Authority, mean scores of the 1974 and 1979 cohort samples of teenagers were practically the same for both smokers and nonsmokers. Those of the longitudinal group, however, showed increases in every segment of the group. The respondent in that group is apparently identifying with the adult world rather than with the teenager who has a lower score, wishes he were older, and feels than a teenager "should be able to do the things he wants to do when he wants to do them."

There were no differences between the two national samples of teenagers on Factor 8, Control of Future. There were some differences, though small, in the longitudinal sample. There was a slight increase in the scores of those who were smokers in 1974, whether or not they were smokers in 1979. This increase might be expected in the group who were smokers in 1974 and nonsmokers in 1979--the S→NS category--in that they might believe that they had gained more control by giving up smoking. The similar increase in the S→S category cannot be explained in the same way. The differences in all four groups are small and may represent chance variation.

Smoking History of 1979 Follow-up Sample

Those interviewees who were either current smokers or ex-smokers were asked a series of questions about their experiences with smoking and their concern about it. Their responses to these questions are discussed in this section. The former smokers in this sample are truly former smokers--they did not quit just before the interview. In fact, 70.1% said that they had not smoked cigarettes for at least six months (Exhibit C-8).

In comparing former smokers with current smokers, we find that ex-smokers did not smoke for as many years, nor did they smoke as regularly, as did current smokers. One-third of former smokers (33.5%) had smoked for a year or less, while only 14.0% of current smokers had smoked for so short a time (Exhibit 15). When asked about the number of cigarettes they were smoking just before they stopped smoking regularly, one in four (24.7%) of the former smokers said that they smoked less often than every day, and another one-third (34.5%) said that they were smoking between 1 and 14 cigarettes a day. Very few current smokers said that they smoked less often than every day (7.6%) (Exhibit 16).

While former smokers had smoked for a shorter period of time, they also started smoking fairly regularly at an earlier age

Exhibit 15

NUMBER OF YEARS CIGARETTES SMOKED ON A FAIRLY REGULAR BASIS

Number of Years	Boys						Girls						Total					
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Less Than One Year	4	2.5	11	10.3	15	5.6	7	4.2	9	10.3	16	6.3	11	3.4	20	10.3	31	5.9
One Year	19	11.7	26	24.3	45	16.7	16	9.6	19	21.8	35	13.8	35	10.7	45	23.2	80	15.3
Two Years	25	15.4	28	26.2	53	19.7	36	21.7	20	23.0	56	22.1	61	18.6	48	24.7	109	20.9
Three Years	29	17.9	12	11.2	41	15.2	34	20.5	16	18.4	50	19.8	63	19.2	28	14.4	91	17.4
Four Years	23	14.2	10	9.3	33	12.3	24	14.5	13	14.9	37	14.6	47	14.3	23	11.9	70	13.4
Five Years	18	11.1	11	10.3	29	10.8	23	13.9	5	5.7	28	11.1	41	12.5	16	8.2	57	10.9
Six Years	27	16.7	5	4.7	32	11.9	13	7.8	4	4.6	17	6.7	40	12.2	9	4.6	49	9.4
Seven of More Years	17	10.5	4	3.7	21	7.8	13	7.8	1	1.1	14	5.5	30	9.1	5	2.6	35	6.7
Not Specified																		
Total	162	100.0	107	100.0	269	100.0	166	100.0	87	99.8	253	99.9	328	100.0	194	99.9	522	99.9

Base: All current regular smokers.

Exhibit 16

NUMBERS OF CIGARETTES SMOKED PER DAY

	Boys						Girls						Total					
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Number of Cigarettes																		
Less Than Every Day	11	6.8	30	28.0	41	15.2	14	8.4	18	20.7	32	12.6	25	7.6	48	24.7	73	14.0
1 - 4 Per Day	2	1.2	6	5.6	8	3.0	13	7.8	9	10.3	22	8.7	15	4.6	15	7.7	30	5.7
5 - 9 Per Day	14	8.6	9	8.4	23	8.6	10	6.0	11	12.6	21	8.3	24	7.3	20	10.3	44	8.4
10 - 14 Per Day	41	25.3	13	12.1	54	20.1	45	27.1	19	21.8	64	25.3	86	26.2	32	16.5	118	22.6
15 - 24 Per Day	65	40.1	33	30.8	98	36.4	69	41.6	23	26.4	92	36.4	134	40.9	56	28.9	190	36.4
25 - 34 Per Day	17	10.5	5	4.7	22	8.2	11	6.6	3	3.4	14	5.5	28	8.5	8	4.1	36	6.9
35 - 44 Per Day	10	6.2	8	7.5	18	6.7	3	1.8	4	4.6	7	2.8	13	4.0	12	6.2	25	4.8
45 - 54 Per Day	2	1.2	1	0.9	3	1.1	1	0.6	0	0.0	1	0.4	3	0.9	1	0.5	4	0.8
55 Per Day and Over	0	0.0	2	1.9	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	2	1.0	2	0.4
Total	162	99.9	107	99.9	269	100.0	166	99.9	87	99.8	253	100.0	328	100.0	194	99.9	522	100.0

Base: All current regular and ex-smokers.

than did current smokers. Among ex-smokers, 22.7% started smoking at age 14 or younger, while only 13.7% of current smokers started this young. The difference was among boys only, however. The median age of starting to smoke was 16.4 years for male current smokers and 15.8 years for male ex-smokers. For females, the median age was 16.1 for both former smokers and current smokers (Exhibit C-9).

Current smokers are more likely than former smokers to say that they had tried just to cut down the number of cigarettes they allowed themselves to smoke without trying to stop smoking entirely. Seventy-eight percent of current smokers had tried to cut down, compared with 41.8% of former smokers (Exhibit C-10). This is consistent with the finding that one-half of the ex-smokers were successful in quitting the first time they tried, while 61.6% of current smokers had made one or more attempts to quit but were still smoking (Exhibit C-11). Also consistent is the fact that former smokers were more likely than current smokers to have bought cigarettes by the pack rather than by the carton (90.2% and 73.8%, respectively) (Exhibit C-12). Buying by the carton probably indicates that the person intends to continue to smoke, at least for a while.

As noted above, six out of ten current smokers have made at least one attempt to quit smoking. Another three out of ten said that if there were an easy way to stop smoking, they would probably try it. Only one out of ten, then, expressed little or no interest in quitting (Exhibit C-13). One reason that such a large proportion of smokers was interested in quitting is that they were concerned about the possible effects of smoking on their health. In fact, 88.1% said that they were concerned (Exhibit C-14). A larger proportion of females than males (91.0% and 85.2%, respectively) expressed this concern, perhaps because of the link between smoking and birth control pills and the possible effect of smoking during pregnancy on the fetus.

When smokers were asked to speculate about whether or not they would continue to smoke if the price of a pack of cigarettes were doubled, nearly eight out of ten said that it was either very unlikely or somewhat unlikely that they would continue to smoke (Exhibit 17). Smokers who were paying 63¢ or more for a package of cigarettes were more prone to say that they would be very unlikely to continue to smoke if the price were doubled than were those who were paying 62¢ or less per pack. However, there was not a strong linear relationship between cost of cigarettes and strength of conviction. The 68 smokers who said that they were very likely or somewhat likely to continue to smoke if the price of cigarettes doubled were asked what they would do if the price were tripled. Four said that they did not know. Of the remainder, 52.9% said that they would probably continue to smoke. Only 17.6% said that it is very unlikely that they would continue to smoke if the price of cigarettes were tripled. While it is impossible to guess how close these speculations approximate actual behavior, it appears that, for some at least, cost may have some influence on smoking behavior.

Two-thirds of the smokers said that they believed some kinds of cigarettes were probably more hazardous to health than others, and most of the others said that all cig-

Exhibit 17

QUESTION: If the cost of a pack of cigarettes were (double the amount respondent is now paying), would you be likely or unlikely to smoke cigarettes?

	Very Likely		Somewhat Likely		Somewhat Unlikely		Very Unlikely		No Opinion/ Don't Know	
Present Cost Per Pack	N	%	N	%	N	%	N	%	N	%
52¢ or Less	9	27.3	9	25.7	18	20.5	32	19.0	1	33.3
53¢-57¢	8	24.2	5	14.3	6	6.8	16	9.5	0	0.0
58¢-62¢	4	12.1	8	22.9	17	19.3	33	19.6	0	0.0
63¢-67¢	6	18.2	9	25.7	21	23.9	33	19.6	1	33.3
68¢-72¢	2	6.1	1	2.9	11	12.5	24	14.3	1	33.3
73¢-77¢	3	9.1	2	5.7	9	10.2	20	11.9	0	0.0
78¢ or More	1	3.0	1	2.9	6	6.8	10	6.0	0	0.0
Total	33	100.0	35	100.1	88	100.0	168	99.9	3	99.9

Base: All current regular smokers.

arettes were about equally hazardous (only 2.1% said that cigarettes were probably not hazardous to health at all). Males were more prone than females to say that some cigarettes were more hazardous than others (71.0% and 64.5%, respectively); females were more likely to say that all were equally hazardous (33.7% and 25.9%, respectively). Of those who said that some cigarettes were more hazardous than others, 40.5% believed that the kind they smoked was less hazardous; 32.9% believed that their kind was more hazardous; and 24.8% believed that the kind they smoked was about the same as other kinds (Exhibit C-15).

Of those smokers who gave enough information about the brand of cigarette they were smoking for a determination to be made of the number of milligrams of "tar" in the cigarette, one-third (31.5%) were smoking a cigarette with 17 mgm. of "tar," nearly one-half (47.3%) were smoking a cigarette with lower "tar" content, and one-fifth (21.1%) were smoking a cigarette with higher "tar" content. Females were much more likely to smoke lower "tar" cigarettes than were males--57.1% of females compared with 36.8% of males smoked a cigarette with less than 17 mgm. of "tar"; 27.1% of males compared with 15.6% of females smoked a cigarette with more than 17 mgm. of "tar" (Exhibit 18). This fits with past findings that females generally have smaller dosage intake--number and kind of cigarettes--than do males.

Exhibit 18

"TAR" LEVEL OF CIGARETTES SMOKED BY RESPONDENTS IN 1979 FOLLOW-UP SAMPLE

	Boys								Girls							
	17-19		20-21		22-23		Total		17-19		20-21		22-23		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
"Tar" Level																
10 mg. or less	6	11.1	5	11.6	5	10.6	16	11.1	9	13.2	14	27.5	6	17.1	29	18.8
11-15 mg.	14	25.9	11	25.6	6	12.8	31	21.5	22	32.4	13	25.5	11	31.4	46	29.9
16 mg.	1	1.9	2	4.7	3	6.4	6	4.2	5	7.4	3	5.9	5	14.3	13	8.4
17 mg.	21	38.9	16	37.2	15	31.9	52	36.1	20	29.4	14	27.5	8	22.9	42	27.3
18 mg.	6	11.1	4	9.3	9	19.1	19	13.2	6	8.8	1	2.0	2	5.7	9	5.8
19 mg.	3	5.6	3	7.0	5	10.6	11	7.6	4	5.9	4	7.8	1	2.9	9	5.8
20 mg. or more	3	5.6	2	4.7	4	8.5	9	6.2	2	2.9	2	3.9	2	5.7	6	3.9
Total	54	100.1	43	100.1	47	99.9	144	99.9	68	100.0	51	100.1	35	100.0	154	99.9

Base: Current smokers who provided sufficient information for a determination of "tar" level to be made.

II.3 PREDICTORS OF SMOKING BEHAVIOR

One of the major purposes of obtaining information from a sample of young people at two points in time was to answer questions often asked about how we might identify, early, those teenagers who are likely to become smokers. First, questions are asked about the teenage population as a whole. For example, does the fact that a teenager has experimented with cigarettes at a given age mean that he is at risk of becoming a smoker? What characteristics of the environment are likely to place teenagers in a high-risk group? Second, questions are asked about specific groups of teenagers. For example, if a given teenager has never smoked, what are the indications that he will still, five years later, never have smoked? What are the indications that he will be an experimenter? A regular smoker? Ex-smoker? Similar questions are asked about predictors of future smoking behavior for each stage in the taking-up of smoking process.

To answer questions of the first kind, correlational techniques were applied to the entire sample, and multiple regression weights were determined. Questions of the second kind were approached by dividing the sample into segments on the basis of smoking behavior at the time of the 1974 survey. Each segment of the sample was analyzed by multiple discriminant function techniques. The results are described below.

Total Sample

To determine the combination of 1974 variables that would yield the best prediction of 1979 smoking status, correlational techniques were employed. That is, the characteristics of the sample, as measured in 1974, were examined for their relationships with each other and for their relationships to being either a smoker or a nonsmoker in 1979. The following characteristics were included in the analysis:

- possibility of smoking five years hence
- smoking behavior of parents and older siblings
- perception of harmfulness of smoking
- respondent's working practices
- respondent's high school curriculum
- parents' education
- smoking behavior of best friends
- scores on each of eight attitude scales
- 1974 smoking status
- age
- sex

Each of the variables was hypothesized to be a predictor of future smoking behavior; correlational techniques were used to test those hypotheses and to identify the best predictors.

A description of the variables used in the analysis is found in Appendix D along wth a table of intercorrelations of the variables. The zero-order correlations between each of the variables and the criterion of

smoking or nonsmoking are shown in the bottom line of the table. Using stepwise multiple regression, it was found that in five steps most of the common variance was accounted for. That is, by using additional variables, very little was added to the multiple correlation coefficient. With five variables, 23% of variance was accounted for. With three additional variables, 24% was accounted for. Therefore, the five variables predict practically as well as eight variables. The five variables are discussed below.

In 1974 respondents were asked, "What would say is the possibility that five years from now you will be a cigarette smoker?" Five years later, the answers have proved to be the best predictor of cigarette smoking. This variable alone accounts for 13% of the variance.

The second variable in the regression equation is the smoking behavior of friends. It is a continuous variable--the number of regular smokers among one's four best friends.

The third variable in the equation is the score on the factor, Stereotype of Smoking, on which a high score reflects a belief that teenagers start smoking for social reasons--to be more popular, to attract the opposite sex, etc. That variable is behaving as a suppressor variable. Its correlation with the criterion is near zero, but it increases prediction because of its correlation with two other variables that do correlate with the criterion. These are both scores on attitude scales. Variable 31 is the score on the scale entitled Nonsmokers' Rights, and Variable 35 is the score on Stereotype of the Smoker, which reflects negative perceptions of the teenage smoker.

The other two variables, 39 and 44, are "dummy" variables and define those who were either experimenters in 1974 or had never smoked at all in 1974.

The regression equation that provides the best prediciton of 1979 smoking behavior from 1974 data is

$$Y = -0.129X_4 + 0.025X_{29} + 0.115X_{34} - 0.319X_{39} - 0.389X_{40} + 0.869,$$

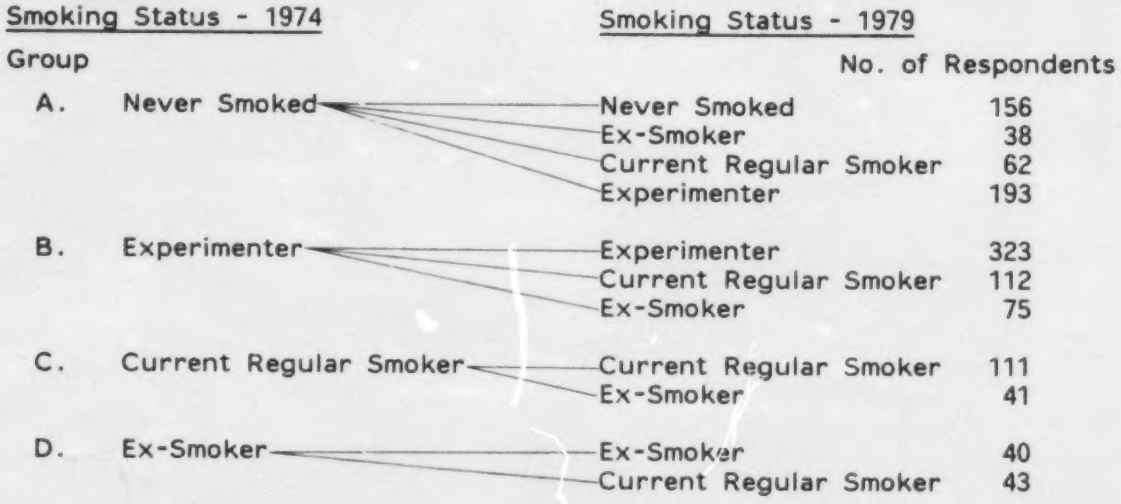
where the subscripts denote the numbers of the variables. Multiple R = 0.4830.

Predictors of Change in Subsamples by 1974 and 1979 Smoking Status

While the multiple regression technique provides gross information on the total population of teenagers, more refined data are needed. For example, how can we predict which of the teenagers who have never smoked will be experimenters five years later? Or, which will have become regular smokers by then? To answer such questions, the sample was divided into subsamples, and multiple discriminant function techniques were applied to them. The multiple discriminant function tests group means and group sigmas to maximize group separation by selecting in stepwise fashion those predictors that maximally separate the groups. Eleven subsamples were identified on the basis of respondents' smoking behavior at the two points in time.

A person who had never smoked in 1974 could be classified in one of four categories on the basis of his 1979 smoking status, either a

"never-smoker" in 1979, an ex-smoker, a current regular smoker, or an experimenter. A person who was an experimenter in 1974 could not be classified as a "never-smoker" in 1979 but would be classified in one of the other three categories. Similarly, one who was either a current regular smoker or an ex-smoker in 1974 could be classified as either a current regular smoker or an ex-smoker in 1979. This is shown in the diagram below, the numbers indicating the size of each subsample.



Stepwise multiple discriminant function analysis was applied to each group--A through D. In groups A through C, where the subsample sizes differed widely, two analyses were executed, using random samples from the larger subgroups.

In discussing the findings, numbers in parentheses after each variable named refer to the numbers assigned to the variables, which are listed in Appendix D.

In interpreting the variables, it must be remembered that in discriminant function analysis, once a variable has been identified as a predictor, it might "crowd out" other variables, depending upon the interactions of these variables. Thus, it is often found that different variables are identified as predictors in two samples from the same population. It does not mean that a variable that is an important predictor in one part of the population is insignificant in another segment. The statistical methodology simply identifies the variables that yield the most parsimonious description of the data.

Group A consisted of 549 respondents who reported in 1974 that they had never smoked a cigarette. Two of the follow-up samples--those who had still never smoked in 1979 and those who had gone no further than experimenting in 1979--were much larger than the other two groups. Therefore, it was necessary to assign, randomly, the subjects in each of these two groups to subgroups and to apply the discriminant function analysis to each of the subgroups. (This was done because discriminant function analysis is sensitive to grossly discrepant sample sizes.)

The 156 respondents who had never smoked in 1974 and had never smoked in 1979 were assigned so that 89 of them were in Group A_1 and 67 in Group A_2. Similarly, the 193 respondents who had never smoked in 1974 and were classified as experimenters in 1979 were assigned so that 86 were in Group A_1 and 107 were in Group A_2. The resulting groups were constituted as follows:

1979 Smoking Status	A_1	A_2
Never Smoked	89	67
Ex-Smoker	38	38
Current Regular Smoker	62	62
Experimenter	86	107
Total	275	274

Analysis of Group A_1 yielded five variables that predicted which smoking category those who had never smoked in 1974 fell into in 1979. These variables were: 1974 statement of possibility of smoking five years hence (4) (the numbers in parentheses are those assigned to the variables); neither parent smokes, but older sibling smokes (12); father's highest level of education includes at least some college (25); 1974 score on Rationalization (33); and age (44).

Group A_2 also yielded five variables that were effective predictors, including three of those identified in Group A_1. The common variables were possibility of smoking five years hence, older sibling smoking, and age. The two other variables were employment (20) and score on Stereotype of Smoking (34).

In both analyses, possibility of smoking five years hence proved the most powerful predictor. An answer of "definitely not" was assigned a score of 4; those who were never smokers in both 1974 and 1979 had a mean score of 3.75 in Group A_1 and 3.67 in Group A_2. The next highest means were for those who were experimenters in 1979--3.59 and 3.55, respectively. Those who reported that in 1974 neither parent smoked but at least one older sibling was a smoker were likely to have become smokers but to have quit by 1979.

The third common variable, age, was the highest for those who, by 1979, had still never smoked. It appears that the older one gets without experimenting with cigarettes, the less likely he is to become a smoker.

In Group A_1, the educational level of the father entered into the prediction equation. Those teenagers with a father who had at least some college education were more likely than the others to be categorized in one of the nonsmoker groups in 1979.

The other variable that appeared as a predictor in Group A_1 was the 1974 score on Rationalization, with those having the highest mean score being most likely to fall into the current regular smoker category in 1979.

In Group A_2, the respondent's employment history was a predictor

of 1979 smoking status, with those who were employed part of the year likely to be classified as current regular smokers or as ex-smokers in 1979.

1979 Smoking Status	B_1	B_2
Experimenter	162	161
Current Regular Smoker	112	112
Ex-Smoker	75	75
Total	349	348

The other variable that appeared in Group A_2 is the score on Stereotype of Smoking, with those with the lowest mean score remaining in the "never-smoker" category.

To summarize, those who were classified as never-smokers in 1974 could be classified into one of four categories in 1979. The best predictors of which category they would fall into were their own statements about their future smoking behavior, the smoking behavior of parents and older sibling, and their age. Also, there were two attitude scores-- Rationalization and Stereotype of Smoking. Those who became smokers had already begun to rationalize about the potential hazards of smoking and to see social advantages to the practice. Those who were employed, at least part of the year, were likely to become smokers, although they may have quit later. Finally, the father's educational level was an important influence, with those having fathers at the higher educational level least likely to be current regular smokers in 1979.

Group B consists of those who were categorized as experimenters in 1974. By 1979, they could be classified as experimenters, current regular smokers, or ex-smokers. Because of unequal cell sizes, Group B was divided into two groups for analysis purposes. The sizes of these groups are as follows:

In Group B_1, the variables that proved the five best predictors were: possibility of smoking five years hence (4); high school curriculum, college preparatory (23); score on Stereotype of Smoking (34); score on Stereotype of Smoker (35); and score on Control of Future (37).

Three of the same predictors appeared in Group B_2. They were possibility of future smoking and scores on Stereotype of Smoking and Stereotype of Smoker. Additional variables were scores on Nonsmokers' Rights (31) and age (44).

With the experimenter, as with the respondent who has never smoked, his own statement of the possibility that he will be a smoker five years hence was a good predictor. In both samples, those who said "definitely not" were most likely to have gone no further than the experimenter stage in 1979. The way in which the experimenter viewed both teenage smoking and the teenage smoker was a predictor of future behavior. The highest mean score on Stereotype of Smoking was that of those who became regular smokers. Perhaps they saw social advantages in smoking. However, they had the lowest mean

score on Stereotype of the Smoker, which describes the teenage smoker in a negative way.

In Group B_1, it was found that those experimenters who were in a college preparatory course were less likely to go beyond that stage than those who were enrolled in any other course. The score on Control of Future was also a predictor for Group B_1--the highest mean was for those who were ex-smokers in 1979.

In Group B_2, the score on Nonsmokers' Rights was a predictor and was highest for those who were still experimenters in 1979.

Age was also a predictor in Group B_2. Apparently, the older one becomes without becoming a regular smoker, the less likely he is to do so.

In summary, in Group B, those who were experimenters in 1974 were likely still to be experimenters in 1979 if they had themselves predicted that they would not be smokers. Other predictors of falling into the 1979 experimenter category were being in a college preparatory curriculum; being older than the average experimenter; and scores on the attitude scales concerned with the dynamics of taking up smoking.

Group C consists of those who were current regular smokers in 1974. By 1979, they could be either current regular smokers or ex-smokers. Again, the group was split into two samples as follows:

1979 Smoking Status	C_1	C_2
Current Regular Smoker	56	55
Ex-Smoker	41	41
Total	97	96

In Group C_1, four variables were found to differentiate the two 1979 categories. They were: the number of cigarettes smoked per day in 1974 (1); the "tar" level of the cigarette smoked (3); the belief that smoking is not harmful to health (18); and score on Stereotype of Smoker (35).

As one might expect, those who were, on the average, smoking more cigarettes per day in 1974 were more likely to be smokers in 1979. Why a higher "tar" level of the cigarette smoked in 1974 is associated with being an ex-smoker in 1979 is not clear. On the other hand, it is understandable that those who denied that smoking was harmful to health were more likely to be smokers in 1979 than ex-smokers. A high score on Stereotype of Smoker predicts being in the smoker category in 1979.

None of the same variables appeared as a predictor in Group C_2. Those that did appear were: possibility of being a smoker five years hence (4); in a college preparatory course (23); smoking behavior of four best friends (29); score on Stereotype of Smoking (34); age (44); and sex (45).

Those in the smoker category were more likely than those in the ex-smoker category to have predicted that they would be smoking five years hence, to have more regular smokers among their four best friends, to have a higher score on Stereotype of Smoking, to be older,

and to be female. The ex-smoker was, in addition to the opposite of the foregoing, more likely to be in a college preparatory course.

Thus, Group C, smokers in 1974, tended to be smokers in 1979 on the basis of their dosage in 1974, their own predictions of what they would be, and on the basis of their attitudes toward the health hazards of smoking and the social benefits of smoking to the teenager.

Finally, Group D is composed of 83 respondents who were ex-smokers in 1974, of whom 40 were ex-smokers and 43 were smokers in 1979. Four variables predicted in which of the two categories the subjects were classified. They were: possibility of smoking five years hence (4); belief that smoking is not harmful to health (18); score on Health (30); and sex (45).

Those who were smokers were less likely to say that they would definitely not be smoking in five years, had a lower score on the Health scale, and were more likely to be female. However, the ex-smokers were more likely to say that smoking is not harmful to health.

Discussion

The variable that appears as a predictor in six of the seven analyses is the repsondents' answer to the question, "What would you say is the possibility that five years from now you will be a cigarette smoker?" It appears that young people are fairly realistic in their perceptions of their future smoking behavior.

For those who have not started to smoke--the never-smokers and the experimenters--other predictors are older sibling smoking, scores on attitude scales, and age. It seems that the longer a teenager can defer becoming a regular smoker, the better his chances of not smoking at all. Once a teenager has become a smoker, other variables enter into the prediction of where he goes from there. Some of those variables are his dosage, educational aspirations, friends, and his acceptance of the hazards of smoking.

II.4 CONCLUSIONS

A comparison of the 1979 current smokers with the former smokers in the sample interviewed in both 1974 and 1979 seems to indicate that the former smokers, on the whole, may not have been really committed to smoking, but may be more like experimenters. They started smoking early and quit early. They did not smoke many cigarettes, and they did not smoke for a long period of time. They found it fairly easy to quit. Current smokers, on the other hand, have tried to quit or would try if they thought there were an easy way to do so. They are concerned about the effect of smoking on their health.

The answer to the question of why these young adults became regular smokers, when they do not seem to be satisfied with this status, is a complex one. On the whole, they did know five years ago that they would probably be smokers today. Their older siblings and their peers were smokers. Their attitudes toward teenage smoking and the teenage smoker were different from those of the teenagers who did not become or remain regular smokers. Finally, educational aspirations and educational attainment is lower for these smokers. This latter finding, consistent with all other national studies of teenage smoking, is probably a reflection of life-style, rather than a cause-effect relationship.

It is hoped that a better understanding of the precedents of smoking in young adults will serve to further reduce the prevalence of smoking and, consequently, the disastrous effects of smoking on the health of the American people.

APPENDIX C

Exhibits C-1 to C-15

Exhibit C-1

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker?

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	1	5.6	1	25.0	3	2.6	1	0.2	3	8.1	1	5.9	5	7.7	1	0.5
Probably yes	7	38.9	0	0.0	58	49.6	9	2.2	19	51.4	1	5.9	22	33.8	2	0.9
Probably not	7	38.9	2	50.0	41	35.0	99	24.2	13	35.1	5	29.4	31	47.7	39	17.9
Definitely not	1	5.6	1	25.0	12	10.3	300	73.3	1	2.7	10	58.8	4	6.2	175	80.3
Not specified	2	11.1	0	0.0	3	2.6	0	0.0	1	2.7	0	0.0	3	4.6	1	0.5
Total Respondents	18	100.1	4	100.0	117	100.1	409	99.9	37	100.0	17	100.0	65	100.0	218	100.1

Exhibit C-1 (Cont.)

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoke to '79 Nonsmoke	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	2	3.6	0	0.0	2	5.7	0	0.0	6	5.4	2	4.9	10	4.6	2	0.2
Probably yes	26	46.4	1	5.0	18	51.4	1	0.5	52	46.8	2	4.9	98	45.2	12	1.5
Probably not	22	39.3	6	30.0	11	31.4	36	18.2	42	37.8	13	31.7	83	38.2	174	21.1
Definitely not	5	8.9	13	65.0	2	5.7	160	80.8	7	6.3	24	58.5	18	8.3	635	77.0
Not specified	1	1.8	0	0.0	2	5.7	1	0.5	4	3.6	0	0.0	8	3.7	2	0.2
Total Respondents	56	100.0	20	100.0	35	99.9	198	100.0	111	99.9	41	100.0	217	100.0	825	100.0

Exhibit C-1 (Cont.)

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker?

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	0	0.0	0	0.0	2	3.6	1	0.5	0	0.0	1	10.0	2	6.9	0	0.0
Probably yes	4	50.0	0	0.0	29	51.8	2	1.0	10	58.8	0	0.0	12	41.4	2	1.7
Probably not	3	37.5	0	0.0	19	33.9	47	23.2	6	35.3	2	20.0	14	48.3	19	15.7
Definitely not	0	0.0	0	0.0	6	10.7	153	75.4	1	5.9	7	70.0	1	3.4	100	82.6
Not specified	1	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Boys	8	100.0	0	0.0	56	100.0	203	100.1	17	100.0	10	100.0	29	100.0	121	100.0

Exhibit C-1 (Cont.)

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker?

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	2	5.9	0	0.0	1	5.6	0	0.0	2	3.4	1	4.3	5	4.9	1	0.2
Probably yes	17	50.0	1	7.7	9	50.0	1	1.0	31	52.5	1	4.3	50	48.5	5	1.2
Probably not	12	35.3	5	38.5	4	22.2	20	20.2	21	35.6	7	30.4	37	35.9	86	20.3
Definitely not	2	5.9	7	53.8	2	11.1	77	77.8	3	5.1	14	60.9	9	8.7	330	78.0
Not specified	1	2.9	0	0.0	2	11.1	1	1.0	2	3.4	0	0.0	2	1.9	1	0.2
Total Boys	34	100.0	13	100.0	18	100.0	99	100.0	59	100.0	23	99.9	103	99.9	423	99.9

Exhibit C-1 (Cont.)

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker?

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	1	10.0	1	25.0	1	1.6	0	0.0	3	15.0	0	0.0	3	8.3	1	1.0
Probably yes	3	30.0	0	0.0	29	47.5	7	3.4	9	45.0	1	14.3	10	27.8	0	0.0
Probably not	4	40.0	2	50.0	22	36.1	52	25.2	7	35.0	3	42.9	17	47.2	20	20.6
Definitely not	1	10.0	1	25.0	6	9.8	147	71.4	0	0.0	3	42.9	3	8.3	75	77.3
Not specified	1	10.0	0	0.0	3	4.9	0	0.0	1	5.0	0	0.0	3	8.3	1	1.0
Total Girls	10	100.0	4	100.0	61	99.9	206	100.0	20	100.0	7	100.1	36	99.9	97	99.9

Exhibit C-1 (Cont.)

QUESTION: What would you say is the possibility that five years from now you will be a cigarette smoker?

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Definitely yes	0	0.0	0	0.0	1	5.9	0	0.0	4	7.7	1	5.6	5	4.4	1	0.2
Probably yes	9	40.9	0	0.0	9	52.9	0	0.0	21	40.4	1	5.6	48	42.1	7	1.7
Probably not	10	45.5	1	14.3	7	41.2	16	16.2	21	40.4	6	33.3	46	40.4	88	21.9
Definitely not	3	13.6	6	85.7	0	0.0	83	83.8	4	7.7	10	55.6	9	7.9	305	75.9
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	2	3.8	0	0.0	6	5.3	1	0.2
Total Girls	22	100.0	7	100.0	17	100.0	99	100.0	52	100.0	18	100.1	114	100.1	402	99.9

Exhibit C-2

OLDER SIBLING SMOKING HABITS

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	4	22.2	2	50.0	42	35.9	157	38.4	13	35.1	4	23.5	30	46.2	73	33.5
Have older siblings	14	77.8	2	50.0	75	64.1	252	61.6	24	64.9	13	76.5	35	53.8	145	66.5
None smoke	4	22.2	0	0.0	27	23.1	134	32.8	4	10.8	5	29.4	14	21.5	78	35.8
One or more smoke	10	55.6	2	50.0	48	41.0	117	28.6	20	54.1	8	47.1	21	32.3	67	30.7
Not specified	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Total Respondents	18	100.0	4	100.0	117	100.0	409	100.0	37	100.0	17	100.0	65	100.0	218	100.0

Exhibit C-2 (Cont.)

OLDER SIBLING SMOKING HABITS

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	10	17.9	3	15.0	7	20.0	55	27.8	27	24.3	9	22.0	79	36.4	285	34.5
Have older siblings	46	82.1	17	85.0	28	80.0	143	72.2	84	75.7	32	78.0	138	63.6	540	65.5
None smoke	17	30.4	7	35.0	15	42.9	70	35.4	25	22.5	12	29.3	56	25.3	282	34.2
One or more smoke	29	51.8	10	50.0	13	37.1	73	36.9	59	53.2	20	48.8	82	37.8	257	31.2
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1
Total Respondents	56	100.0	20	100.0	35	100.0	198	100.0	111	100.0	41	100.0	217	100.0	825	100.0

Exhibit C-2 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	1	12.5	0	0.0	20	35.7	70	34.5	6	35.3	3	30.0	10	34.5	39	32.2
Have older siblings	7	87.5	0	0.0	36	64.3	133	65.5	11	64.7	7	70.0	19	65.5	82	67.8
None smoke	2	25.0	0	0.0	13	23.2	69	34.0	1	5.9	2	20.0	8	27.6	46	38.0
One or more smoke	5	62.5	0	0.0	23	41.1	63	31.0	10	58.8	5	50.0	11	37.9	36	29.8
Not specified	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0
Total Boys	8	100.0	0	0.0	56	100.0	203	100.0	17	100.0	10	100.0	29	100.0	121	100.0

Exhibit C-2 (Cont.)

OLDER SIBLING SMOKING HABITS

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	7	20.6	2	15.4	2	11.1	32	32.3	14	23.7	5	21.7	32	31.1	141	33.3
Have older siblings	27	79.4	11	84.6	16	88.9	67	67.7	45	76.3	18	78.3	71	68.9	282	66.7
None smoke	11	32.4	4	30.8	10	55.6	34	34.3	14	23.7	6	26.1	31	30.1	149	35.2
One or more smoke	16	47.1	7	53.8	6	33.3	33	33.3	31	52.5	12	52.2	40	38.8	132	31.2
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
Total Boys	34	100.0	13	100.0	18	100.0	99	100.0	59	100.0	23	100.0	103	100.0	423	100.0

Exhibit C-2 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	3	30.0	2	50.0	22	36.1	87	42.2	7	35.0	1	14.3	20	55.6	34	35.1
Have older siblings	7	70.0	2	50.0	39	63.9	119	57.8	13	65.0	6	85.7	16	44.4	63	64.9
None smoke	2	20.0	0	0.0	14	23.0	65	31.6	3	15.0	3	42.9	6	16.7	32	33.0
One or more smoke	5	50.0	2	50.0	25	41.0	54	26.2	10	50.0	3	42.9	10	27.8	31	32.0
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Girls	10	100.0	4	100.0	61	100.0	206	100.0	20	100.0	7	100.0	36	100.0	97	100.0

Exhibit C-2 (Cont.)

OLDER SIBLING SMOKING HABITS

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Have no older siblings	3	13.6	1	14.3	5	29.4	23	23.2	13	25.0	4	22.2	47	41.2	144	35.8
Have older siblings	19	86.4	6	85.7	12	70.6	76	76.8	39	75.0	14	77.8	67	58.8	258	64.2
None smoke	6	27.3	3	42.9	5	29.4	36	36.4	11	21.2	6	33.3	25	21.9	133	33.1
One or more smoke	13	59.1	3	42.9	7	41.2	40	40.4	28	53.8	8	44.4	42	36.8	125	31.1
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Girls	22	100.0	7	100.0	17	100.0	99	100.0	52	100.0	18	100.0	114	100.0	402	100.0

Exhibit C-3

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	2	11.1	0	0.0	0	0.0	30	7.3	0	0.0	0	0.0	1	1.5	15	6.9
At least one is a regular smoker	15	83.3	4	100.0	112	95.7	217	53.1	35	94.6	16	94.1	57	87.7	122	56.0
None is a regular smoker	1	5.6	0	0.0	5	4.3	156	38.1	2	5.4	1	5.9	7	10.8	78	35.8
Not specified	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	1	0.5
No four best friends	0	0.0	0	0.0	0	0.0	5	1.2	0	0.0	0	0.0	0	0.0	2	0.9
Total respondents	18	100.0	4	100.0	117	100.0	409	99.9	37	100.0	17	100.0	65	100.0	218	100.1

Exhibit C-3 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	0	0.0	0	0.0	0	0.0	13	6.6	2	1.8	0	0.0	1	0.5	58	7.0
At least one is a regular smoker	52	92.9	15	75.0	31	88.6	103	52.0	102	91.9	35	85.4	200	92.2	442	53.6
None is a regular smoker	3	5.4	5	25.0	4	11.4	81	40.9	6	5.4	6	14.6	16	7.4	315	38.2
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.2
No four best friends	1	1.8	0	0.0	0	0.0	1	0.5	1	0.9	0	0.0	0	0.0	8	1.0
Total respondents	56	100.1	20	100.0	35	100.0	198	100.0	111	100.0	41	100.0	217	100.1	825	100.0

Exhibit C-3 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	2	25.0	0	0.0	0	0.0	18	8.9	0	0.0	0	0.0	1	3.4	10	8.3
At least one is a regular smoker	5	62.5	0	0.0	53	94.6	96	47.3	17	100.0	10	100.0	25	86.2	61	50.4
None is a regular smoker	1	12.5	0	0.0	3	5.4	85	41.9	0	0.0	0	0.0	3	10.3	47	38.8
Not specified	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	1	0.8
No four best friends	0	0.0	0	0.0	0	0.0	3	1.5	0	0.0	0	0.0	0	0.0	2	1.7
Total Boys	8	100.0	0	0.0	56	100.0	203	100.0	17	100.0	10	100.0	29	100.0	121	100.0

Exhibit C-3 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	0	0.0	0	0.0	0	0.0	6	6.1	2	3.4	0	0.0	1	1.0	34	8.0
At least one is a regular smoker	31	91.2	10	76.9	15	83.3	49	49.5	53	89.8	20	87.0	93	90.3	206	48.7
None is a regular smoker	2	5.9	3	23.1	3	16.7	44	44.4	3	5.1	3	13.0	9	8.7	176	41.6
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5
No four best friends	1	2.9	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	0	0.0	5	1.2
Total Boys	34	100.0	13	100.0	18	100.0	99	100.0	59	100.0	23	100.0	103	100.0	423	100.0

Exhibit C-3 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	0	0.0	0	0.0	0	0.0	12	5.8	0	0.0	0	0.0	0	0.0	5	5.2
At least one is a regular smoker	10	100.0	4	100.0	59	96.7	121	58.7	18	90.0	6	85.7	32	88.9	61	62.9
None is a regular smoker	0	0.0	0	0.0	2	3.3	71	34.5	2	10.0	1	14.3	4	11.1	31	32.0
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
No four best friends	0	0.0	0	0.0	0	0.0	2	1.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Girls	10	100.0	4	100.0	61	100.0	206	100.0	20	100.0	7	100.0	36	100.0	97	100.1

Exhibit C-3 (Cont.)

SMOKING BEHAVIOR OF FOUR BEST FRIENDS

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
None experimented	0	0.0	0	0.0	0	0.0	7	7.1	0	0.0	0	0.0	0	0.0	24	6.0
At least one is a regular smoker	21	95.5	5	71.4	16	94.1	54	54.5	49	94.2	15	83.3	107	93.9	236	58.7
None is a regular smoker	1	4.5	2	28.6	1	5.9	37	37.4	3	5.8	3	16.7	7	6.1	139	34.6
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
No four best friends	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	3	0.7
Total Girls	22	100.0	7	100.0	17	100.0	99	100.0	52	100.0	18	100.0	114	100.0	402	100.0

Exhibit C-4

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	12	66.7	3	75.0	57	48.7	275	67.2	22	59.5	11	64.7	35	53.8	146	67.0
No	6	33.3	1	25.0	60	51.3	133	32.5	15	40.5	6	35.3	30	46.2	69	31.7
Not specified	0	0.0	0	0.0	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0	3	1.4
Total Respondents	18	100.0	4	100.0	117	100.0	409	99.9	37	100.0	17	100.0	65	100.0	218	100.1

Exhibit C-4 (Cont.)

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	37	66.1	14	70.0	15	42.9	165	83.3	71	64.0	28	68.3	107	49.3	586	71.0
No	19	33.9	6	30.0	20	57.1	32	16.2	40	36.0	13	31.7	110	50.7	234	28.4
Not specified	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	5	0.6
Total Respondents	56	100.0	20	100.0	35	100.0	198	100.0	111	100.0	41	100.0	217	100.0	825	100.0

Exhibit C-4 (Cont.)

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	5	62.5	0	0.0	25	44.6	126	62.1	9	52.9	7	70.0	16	55.2	79	65.3
No	3	37.5	0	0.0	31	55.4	77	37.9	8	47.1	3	30.0	13	44.8	40	33.1
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.7
Total Boys	8	100.0	0	0.0	56	100.0	203	100.0	17	100.0	10	100.0	29	100.0	121	100.1

Exhibit C-4 (Cont.)

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	22	64.7	10	76.9	6	33.3	86	86.9	36	61.0	17	73.9	47	45.6	291	68.8
No	12	35.3	3	23.1	12	66.7	13	13.1	23	39.0	6	26.1	56	54.4	130	30.7
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5
Total Boys	34	100.0	13	100.0	18	100.0	99	100.0	59	100.0	23	100.0	103	100.0	423	100.0

Exhibit C-4 (Cont.)

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	7	70.0	3	75.0	32	52.5	149	72.3	13	65.0	4	57.1	19	52.8	67	69.1
No	3	30.0	1	25.0	29	47.5	56	27.2	7	35.0	3	42.9	17	47.2	29	29.9
Not specified	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	1	1.0
Total Girls	10	100.0	4	100.0	61	100.0	206	100.0	20	100.0	7	100.0	36	100.0	97	100.0

Exhibit C-4 (Cont.)

QUESTION: As far as you are aware, has cigarette smoking affected the health of anyone you personally know--such as a family member, a friend, yourself, someone at work, or some other acquaintance?

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	15	68.2	4	57.1	9	52.9	79	79.8	35	67.3	11	61.1	60	52.6	295	73.4
No	7	31.8	3	42.9	8	47.1	19	19.2	17	32.7	7	38.9	54	47.4	104	25.9
Not specified	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	3	0.7
Total Girls	22	100.0	7	100.0	17	100.0	99	100.0	52	100.0	18	100.0	114	100.0	402	100.0

Exhibit C-5

QUESTION: Has anyone, including yourself, that you have personally known, ever had coronary heart disease? How about lung cancer? And, finally, emphysema or chronic bronchitis?

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Coronary heart disease	8	44.4	0	0.0	29	24.8	122	29.8	11	29.7	4	23.5	17	26.2	70	32.1
Lung cancer	9	50.0	1	25.0	26	22.2	132	32.3	11	29.7	4	23.5	20	30.8	74	33.9
Emphysema or chronic bronchitis	9	50.0	3	75.0	50	42.7	177	43.3	16	43.2	7	41.2	25	38.5	116	53.2
No experiences with diseases	4	22.2	1	25.0	48	41.0	150	36.7	13	35.1	9	52.9	25	38.5	65	29.8
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Respondents	18	100.0	4	100.0	117	100.0	409	100.0	37	100.0	17	100.0	65	100.0	218	100.0

Exhibit C-5 (Cont)

QUESTION: Has anyone, including yourself, that you have personally known, ever had coronary heart disease? How about lung cancer? And, finally, emphysema or chronic bronchitis?

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Coronary heart disease	21	37.5	4	20.0	12	34.3	92	46.5	40	36.0	8	19.5	58	26.7	284	34.4
Lung cancer	15	26.8	7	35.0	7	20.0	82	42.4	35	31.5	12	29.3	53	24.4	290	35.2
Emphysema or chronic bronchitis	35	62.5	13	65.0	13	37.1	106	53.5	60	54.1	23	56.1	88	40.6	399	48.4
No experiences with diseases	12	21.4	5	25.0	13	37.1	45	22.7	29	26.1	15	36.6	86	39.6	260	31.5
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total Respondents	56	100.0	20	100.0	35	100.0	198	100.0	111	100.0	41	100.0	217	100.0	825	100.0

Exhibit 6

RESPONDENT'S PRESENT LEVEL OF EDUCATION

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	2	1.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0
11th Grade	0	0.0	0	0.0	6	5.1	36	8.8	0	0.0	0	0.0	0	0.0	0	0.0
12th Grade	0	0.0	0	0.0	29	24.8	120	29.3	0	0.0	0	0.0	0	0.0	0	0.0
College	4	22.2	1	25.0	26	22.2	145	35.5	4	10.8	5	29.4	15	23.1	105	48.2
Freshman	2	11.1	0	0.0	16	13.7	85	20.8	2	5.4	1	5.9	0	0.0	3	1.4
Sophomore	2	11.1	1	25.0	9	7.7	49	12.0	1	2.7	3	17.6	3	4.6	29	13.3
Junior	0	0.0	0	0.0	0	0.0	8	2.0	1	2.7	0	0.0	7	10.8	48	22.0
Senior	0	0.0	0	0.0	1	0.9	3	0.7	0	0.0	1	5.9	5	7.7	25	11.5
Vocational or Trade School	0	0.0	0	0.0	1	0.9	5	1.2	0	0.0	0	0.0	0	0.0	1	0.5
Commercial or Business School	1	5.6	0	0.0	4	3.4	5	1.2	0	0.0	0	0.0	1	1.5	0	0.0
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	2.8
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	13	72.2	3	75.0	49	41.9	95	23.2	33	89.2	12	70.6	49	75.4	106	48.6
Total Respondents	18	100.0	4	100.0	117	100.0	409	100.0	37	100.0	17	100.0	65	100.0	218	100.0

Exhibit C-6 (Cont.)

RESPONDENT'S PRESENT LEVEL OF EDUCATION

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.9	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.4
11th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6	2.8	36	4.4
12th Grade	1	1.8	0	0.0	0	0.0	0	0.0	1	0.9	0	0.0	29	13.4	120	14.5
College	6	10.7	4	20.0	9	25.7	38	19.2	14	12.6	10	24.4	50	23.0	288	34.9
Freshman	2	3.6	2	10.0	0	0.0	0	0.0	6	5.4	3	7.3	16	7.4	88	10.7
Sophomore	0	0.0	0	0.0	1	2.9	3	1.5	3	2.7	4	9.8	13	6.0	81	9.8
Junior	2	3.6	1	5.0	3	8.6	11	5.6	3	2.7	1	2.4	10	4.6	67	8.1
Senior	2	3.6	1	5.0	5	14.3	24	12.1	2	1.8	2	4.9	11	5.1	52	6.3
Vocational or Trade School	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	1	0.5	7	0.8
Commercial or Business School	0	0.0	0	0.0	0	0.0	1	0.5	1	0.9	0	0.0	5	2.3	6	0.7
Other	1	1.8	1	5.0	0	0.0	10	5.1	1	0.9	1	2.4	0	0.0	16	1.9
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	48	85.7	15	75.0	26	74.3	148	74.7	94	84.7	30	73.2	124	57.1	349	42.3
Total Respondents	56	100.0	20	100.0	35	100.0	198	100.0	111	100.0	41	100.0	217	100.0	825	100.0

Exhibit C-6 (Cont.)

RESPONDENT'S PRESENT LEVEL OF EDUCATION

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	2	3.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	1	0.5	0	0.0	0	0.0	0	0.0	0	0.0
11th Grade	0	0.0	0	0.0	2	3.6	20	9.9	0	0.0	0	0.0	0	0.0	0	0.0
12th Grade	0	0.0	0	0.0	13	23.2	66	32.5	0	0.0	0	0.0	0	0.0	0	0.0
College	2	25.0	0	0.0	10	17.9	65	32.0	3	17.6	3	30.0	6	20.7	60	49.6
Freshman	0	0.0	0	0.0	7	12.5	42	20.7	1	5.9	0	0.0	0	0.0	1	0.8
Sophomore	2	25.0	0	0.0	3	5.4	17	8.4	1	5.9	3	30.0	2	6.9	20	16.5
Junior	0	0.0	0	0.0	0	0.0	4	2.0	1	5.9	0	0.0	3	10.3	28	23.1
Senior	0	0.0	0	0.0	0	0.0	2	1.0	0	0.0	0	0.0	1	3.4	11	9.1
Vocational or Trade School	0	0.0	0	0.0	0	0.0	3	1.5	0	0.0	0	0.0	0	0.0	1	0.8
Commercial or Business School	1	12.5	0	0.0	3	5.4	3	1.5	0	0.0	0	0.0	0	0.0	0	0.0
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	2.5
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	5	62.5	0	0.0	26	46.4	45	22.2	14	82.4	7	70.0	23	79.3	57	47.1
Total Boys	8	100.0	0	0.0	56	100.0	203	100.0	17	100.0	10	100.0	29	100.0	121	100.0

Exhibit C-6 (Cont.)

RESPONDENT'S PRESENT LEVEL OF EDUCATION

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.9	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.2
11th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	1.9	20	4.7
12th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13	12.6	66	15.6
College	2	5.9	3	23.1	3	16.7	22	22.2	7	11.9	6	26.1	19	18.4	147	34.8
Freshman	0	0.0	2	15.4	0	0.0	0	0.0	1	1.7	2	8.7	7	6.8	43	10.2
Sophomore	0	0.0	0	0.0	1	5.6	3	3.0	3	5.1	3	13.0	6	5.8	40	9.5
Junior	1	2.9	0	0.0	1	5.6	5	5.1	2	3.4	0	0.0	4	3.9	37	8.7
Senior	1	2.9	1	7.7	1	5.6	14	14.1	1	1.7	1	4.3	2	1.9	27	6.4
Vocational or Trade School	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	0.9
Commercial or Business School	0	0.0	0	0.0	0	0.0	0	0.0	1	1.7	0	0.0	3	2.9	3	0.7
Other	1	2.9	1	7.7	0	0.0	1	1.0	1	1.7	1	4.3	0	0.0	4	0.9
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	31	91.2	9	69.2	15	83.3	76	76.8	50	84.7	16	69.6	64	62.1	178	42.1
Total Boys	34	100.0	13	100.0	18	100.0	99	100.0	59	100.0	23	100.0	103	100.0	423	100.0

Exhibit C-6 (Cont.)

RESPONDENT'S PRESENT LEVEL OF EDUCATION

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	2	1.0	0	0.0	0	0.0	0	0.0	0	0.0
11th Grade	0	0.0	0	0.0	4	6.6	16	7.8	0	0.0	0	0.0	0	0.0	0	0.0
12th Grade	0	0.0	0	0.0	16	26.2	54	26.2	0	0.0	0	0.0	0	0.0	0	0.0
College	2	20.0	1	25.0	16	26.2	80	38.8	1	5.0	2	28.6	9	25.0	45	46.4
Freshman	2	20.0	0	0.0	9	14.8	43	20.9	1	5.0	1	14.3	0	0.0	2	2.1
Sophomore	0	0.0	1	25.0	6	9.8	32	15.5	0	0.0	0	0.0	1	2.8	9	9.3
Junior	0	0.0	0	0.0	0	0.0	4	1.9	0	0.0	0	0.0	4	11.1	20	20.6
Senior	0	0.0	0	0.0	1	1.6	1	0.5	0	0.0	1	14.3	4	11.1	14	14.4
Vocational or Trade School	0	0.0	0	0.0	1	1.6	2	1.0	0	0.0	0	0.0	0	0.0	0	0.0
Commercial or Business School	0	0.0	0	0.0	1	1.6	2	1.0	0	0.0	0	0.0	1	2.8	0	0.0
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	3.1
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	8	80.0	3	75.0	23	37.7	50	24.3	19	95.0	5	71.4	26	72.2	49	50.5
Total Girls	10	100.0	4	100.0	61	100.0	206	100.0	20	100.0	7	100.0	36	100.0	97	100.0

Exhibit C-6 (Cont.)

RESPONDENT'S PRESENT LEVEL OF EDUCATION

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
7th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
8th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
9th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
10th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.5
11th Grade	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	3.5	16	4.0
12th Grade	1	4.5	0	0.0	0	0.0	0	0.0	1	1.9	0	0.0	16	14.0	54	13.4
College	4	18.2	1	14.3	6	35.3	16	16.2	7	13.5	4	22.2	31	27.2	141	35.1
Freshman	2	9.1	0	0.0	0	0.0	0	0.0	5	9.6	1	5.6	9	7.9	45	11.2
Sophomore	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	5.6	7	6.1	41	10.2
Junior	1	4.5	1	14.3	2	11.8	6	6.1	1	1.9	1	5.6	6	5.3	30	7.5
Senior	1	4.5	0	0.0	4	23.5	10	10.1	1	1.9	1	5.6	9	7.9	25	6.2
Vocational or Trade School	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	1	0.9	3	0.7
Commercial or Business School	0	0.0	0	0.0	0	0.0	1	1.0	0	0.0	0	0.0	2	1.8	3	0.7
Other	0	0.0	0	0.0	0	0.0	9	9.1	0	0.0	0	0.0	0	0.0	12	3.0
Not specified	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not in school	17	77.3	6	85.7	11	64.7	72	72.7	44	84.6	14	77.8	60	52.6	171	42.5
Total Girls	22	100.0	7	100.0	17	100.0	99	100.0	52	100.0	18	100.0	114	100.0	402	100.0

Exhibit C-7

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

TOTAL

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	1	2.0	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0
Some High School (9-12)	5	38.5	0	0.0	13	26.5	30	31.6	9	27.3	1	8.3	7	14.3	4	3.8
Graduated High School	8	61.5	3	100.0	30	61.2	54	56.8	15	45.5	5	41.7	27	55.1	64	60.4
Some College or More	0	0.0	0	0.0	5	10.2	10	10.5	9	27.3	6	50.0	15	30.6	38	35.8
Total Respondents Not in School	13	100.0	3	100.0	49	99.9	95	100.0	33	100.0	12	100.0	49	100.0	106	100.0

Exhibit C-7 (Cont.)

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

TOTAL

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	0	0.0	1	0.7	0	0.0	0	0.0	1	0.8	2	0.6
Some High School (9-12)	12	25.0	2	13.3	3	11.5	7	4.7	26	27.7	3	10.0	23	18.5	41	11.7
Graduated High School	28	58.3	9	60.0	15	57.7	62	41.9	51	54.3	17	56.7	72	58.1	180	51.6
Some College or More	8	16.7	4	26.7	8	30.8	78	52.7	17	18.1	10	33.3	28	22.6	126	36.1
Total Respondents Not in School	48	100.0	15	100.0	26	100.0	148	100.0	94	100.0	30	100.0	124	100.0	349	100.0

Exhibit C-7 (Cont.)

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

BOYS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Some High School (9-12)	2	40.0	0	0.0	6	23.1	15	33.3	3	21.4	1	14.3	4	17.4	1	1.8
Graduated High School	3	60.0	0	0.0	19	73.1	27	60.0	9	64.3	4	57.1	14	60.9	38	66.7
Some College or More	0	0.0	0	0.0	1	3.8	3	6.7	2	14.3	2	28.6	5	21.7	18	31.6
Total Respondents Not in School	5	100.0	0	0.0	26	100.0	45	100.0	14	100.0	7	100.0	23	100.0	57	100.0

Exhibit C-7 (Cont.)

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

BOYS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	1	0.6
Some High School (9-12)	9	29.0	2	22.2	2	13.3	2	2.6	14	28.0	3	18.8	12	18.8	18	10.1
Graduated High School	17	54.8	6	66.7	9	60.0	31	40.8	29	58.0	10	62.5	42	65.6	96	53.9
Some College or More	5	16.1	1	11.1	4	26.7	42	55.3	7	14.0	3	18.8	10	15.6	63	35.4
Total Respondents Not in School	31	99.9	9	100.0	15	100.0	76	100.0	50	100.0	16	100.1	64	100.0	178	100.0

Exhibit C-7 (Cont.)

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

GIRLS

	17,18,19								20,21							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	1	4.3	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0
Some High School (9-12)	3	37.5	0	0.0	7	30.4	15	30.0	6	31.6	0	0.0	3	11.5	3	6.1
Graduated High School	5	62.5	3	100.0	11	47.8	27	54.0	6	31.6	1	20.0	13	50.0	26	53.1
Some College or More	0	0.0	0	0.0	4	17.4	7	14.0	7	36.8	4	80.0	10	38.5	20	40.8
Total Respondents Not in School	8	100.0	3	100.0	23	99.9	50	100.0	19	100.0	5	100.0	26	100.0	49	100.0

Exhibit C-7 (Cont.)

LAST GRADE RESPONDENT COMPLETED
(For Those Not Currently in School)

GIRLS

	22,23								Total							
	'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker		'74 Smoker to '79 Smoker		'74 Smoker to '79 Nonsmoker		'74 Non-smoker to '79 Smoker		'74 Nonsmoker to '79 Nonsmoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Grade School (1-8)	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.7	1	0.6
Some High School (9-12)	3	17.6	0	0.0	1	9.1	5	6.9	12	27.3	0	0.0	11	18.3	23	13.5
Graduated High School	11	64.7	3	50.0	6	54.5	31	43.1	22	50.0	7	50.0	30	50.0	84	49.1
Some College or More	3	17.6	3	50.0	4	36.4	36	50.0	10	22.7	7	50.0	18	30.0	63	36.8
Total Respondents Not in School	17	99.9	6	100.0	11	100.0	72	100.0	44	100.0	14	100.0	60	100.0	171	100.0

Exhibit C-8

QUESTION: How long has it been since you smoked cigarettes?

	Boys		Girls		Total	
	1979 Ex-Smoker		1979 Ex-Smoker		1979 Ex-Smoker	
	N	%	N	%	N	%
Less than one month	1	0.9	1	1.1	2	1.0
One month to five months	25	23.4	31	35.6	56	28.9
Six months to eleven months	13	12.1	13	14.9	26	13.4
One year or more	68	63.6	42	48.3	110	56.7
Not specified	0	0.0	0	0.0	0	0.0
Base: Total Ex-Smokers	107	100.0	87	100.0	194	100.0

Exhibit C-9

QUESTION: Now, thinking about cigarette smoking, how old were you when you started smoking cigarettes fairly regularly?

	Boys						Girls						Total			
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
13 years old or less	15	9.3	16	15.0	31	11.5	9	5.4	5	5.7	14	5.5	24	7.3	21	10.8
14 years old	10	6.2	14	13.1	24	8.9	11	6.6	9	10.3	20	7.9	21	6.4	23	11.9
15 years old	24	14.8	15	14.0	39	14.5	28	16.9	19	21.8	47	18.6	52	15.9	34	17.5
16 years old	37	22.8	25	23.4	62	23.0	39	23.5	17	19.5	56	22.1	76	23.2	42	21.6
17 years old	30	18.5	14	13.1	44	16.4	25	15.1	14	16.1	39	15.4	55	16.8	28	14.4
18 years old	27	16.7	12	11.2	39	14.5	28	16.9	13	14.9	41	16.2	55	16.8	25	12.9
19 years old	6	3.7	9	8.4	15	5.6	17	10.2	8	9.2	25	9.9	23	7.0	17	8.8
20 years old and over	13	8.0	1	0.9	14	5.2	9	5.4	2	2.3	11	4.3	22	6.7	3	1.5
Not specified	0	0.0	1	0.9	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5
Base: Total Current Regular and Ex-Smokers	162	100.0	107	100.0	269	100.0	166	100.0	87	100.00	253	100.0	328	100.0	194	100.0

Exhibit C-10

CURRENT SMOKER'S QUESTION: Since you started smoking, did you ever try just to cut down the number of cigarettes you allowed yourself to smoke without trying to stop smoking entirely?

EX-SMOKER'S QUESTION: Before you stopped smoking entirely, did you ever try just to cut down the number of cigarettes you allowed yourself to smoke without trying to stop entirely?

	Boys						Girls						Total					
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Yes	113	69.8	37	34.6	150	55.8	143	86.1	44	50.6	187	73.9	256	78.0	81	41.8	337	64.6
No	48	29.6	70	65.4	118	43.9	23	13.9	43	49.4	66	26.1	71	21.6	113	58.2	184	35.2
Not specified	1	0.6	0	0.0	1	0.4	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	1	0.2
Base: Total Current Regular and Ex-Smokers	162	100.0	107	100.0	269	100.0	166	100.0	87	100.0	253	100.0	328	100.0	194	100.0	522	100.0

Exhibit C-11

CURRENT SMOKER'S QUESTION: About how many times would you say you have made a fairly serious attempt to stop smoking cigarettes entirely?

EX-SMOKER'S QUESTION: Before the time you stopped smoking entirely, about how many times would you say you made a fairly serious attempt to stop smoking cigarettes?

	Boys						Girls						Total					
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Never	64	39.5	54	50.5	118	43.9	60	36.1	43	49.4	103	40.7	124	37.8	97	50.0	221	42.3
One attempt	35	21.6	17	15.9	52	19.3	37	22.3	9	10.3	46	18.2	72	22.0	26	13.4	98	18.8
Two attempts	25	15.4	11	10.3	36	13.4	36	21.7	18	20.7	54	21.3	61	18.6	29	14.9	90	17.2
Three or more attempts	36	22.2	22	20.6	58	21.6	33	19.9	16	18.4	49	19.4	69	21.0	38	19.6	107	20.5
Not specified	2	1.2	3	2.8	5	1.9	0	0.0	1	1.1	1	0.4	2	0.6	4	2.1	6	1.1
Base: Total Current Regular and Ex-Smokers	162	100.0	107	100.0	269	100.0	166	100.0	87	100.0	253	100.0	328	100.0	194	100.0	522	100.0

Exhibit C-12

QUESTION: When you buy (bought) cigarettes, do (did) you usually buy cigarettes by the pack or by the carton?

	Boys						Girls						Total					
	1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total		1979 Current Smoker		1979 Ex-Smoker		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Pack	120	74.1	96	89.7	216	80.3	122	73.5	79	90.8	201	79.4	242	73.8	175	90.2	417	79.9
Carton	42	25.9	10	9.3	52	19.3	44	26.5	7	8.0	51	20.2	86	26.2	17	8.8	103	19.7
Don't/Didn't Purchase Cigarettes	0	0.0	1	0.9	1	0.4	0	0.0	1	1.1	1	0.4	0	0.0	2	1.0	2	0.4
Base: Total Current Regular and Ex-Smokers	162	100.0	107	99.9	269	100.0	166	100.0	87	99.9	253	100.0	328	100.0	194	100.0	522	100.0

Exhibit C-13

QUESTION: If there were an easy way to stop smoking, would you try it?

	Boys		Girls		Total	
	1979 Current Smoker		1979 Current Smoker		1979 Current Smoker	
	N	%	N	%	N	%
Never made a serious attempt to quit smoking	64	39.5	60	36.1	124	37.8
Yes	27	16.7	36	21.7	63	19.2
Probably	20	12.3	8	4.8	28	8.5
Depends	2	1.2	6	3.6	8	2.4
No	13	8.0	9	5.4	22	6.7
Not specified	2	1.2	1	0.6	3	0.9
Made a serious attempt to quit smoking	98	60.5	106	63.9	204	62.2
Base: Total Current Smokers	162	100.0	166	100.0	328	100.0

Exhibit C-14

QUESTION: Are you in any way concerned about the possible effects of cigarette smoking on your health?

(Current Regular Smokers)

TOTAL

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Yes	115	85.2	94	92.2	80	87.9	289	88.1
Only slightly concerned	33	24.4	21	20.6	20	22.0	74	22.6
Fairly concerned	32	23.7	35	34.3	27	29.7	94	28.7
Very concerned	50	37.0	38	37.3	32	35.2	120	36.6
Not specified	0	0.0	0	0.0	1	1.1	1	0.3
No	20	14.8	8	7.8	11	12.1	39	11.9
Not specified	0	0.0	0	0.0	0	0.0	0	0.0
Total	135	100.0	102	100.0	91	100.0	328	100.0

Base: Total Current Smokers

Exhibit C-14 (Cont.)

QUESTION: Are you in any way concerned about the possible effects of cigarette smoking on your health?

(Current Regular Smokers)

BOYS

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Yes	52	81.2	42	91.3	44	84.6	138	85.2
Only slightly concerned	17	26.6	9	19.6	14	26.9	40	24.7
Fairly concerned	13	20.3	15	32.6	13	25.0	41	25.3
Very concerned	22	34.4	18	39.1	16	30.8	56	34.6
Not specified	0	0.0	0	0.0	1	1.9	1	0.6
No	12	18.8	4	8.7	8	15.4	24	14.8
Not specified	0	0.0	0	0.0	0	0.0	0	0.0
Total Boys	64	100.1	46	100.0	52	100.0	162	100.0

Exhibit C-14 (Cont.)

QUESTION: Are you in any way concerned about the possible effects of cigarette smoking on your health?

(Current Regular Smokers)

GIRLS

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Yes	63	88.7	52	92.9	36	92.3	151	91.0
Only slightly concerned	16	22.5	12	21.4	6	15.4	34	20.5
Fairly concerned	19	26.8	20	35.7	14	35.9	53	31.9
Very concerned	28	39.4	20	35.7	16	41.0	64	38.6
Not specified	0	0.0	0	0.0	0	0.0	0	0.0
No	8	11.3	4	7.1	3	7.7	15	9.0
Not specified	0	0.0	0	0.0	0	0.0	0	0.0
Total Girls	71	100.0	56	100.0	39	100.0	166	100.0

Base: Total Current Smokers

Exhibit C-15

PERCEIVED HEALTH HAZARDS OF DIFFERENT KINDS OF CIGARETTES

(Current Regular Smokers)

TOTAL

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Some kinds of cigarettes are probably more hazardous to health than others	89	65.9	69	67.6	64	70.3	222	67.7
Kind respondent usually smokes probably more hazardous	30	22.2	22	21.6	21	23.1	73	22.3
Kind respondent usually smokes probably less hazardous	42	31.1	26	25.5	22	24.2	90	27.4
Kind respondent usually smokes about the same as other kinds	16	11.9	19	18.6	20	22.0	55	16.8
Not specified	1	0.7	2	2.0	1	1.1	4	1.2
All cigarettes are probably about equally hazardous	41	30.4	31	30.4	26	28.6	98	29.9
Cigarettes are probably not hazardous to health at all	4	3.0	2	2.0	1	1.1	7	2.1
Not specified	1	0.7	0	0.0	0	0.0	1	0.3
Total	135	100.0	102	100.0	91	100.1	328	100.0

Base: Total Current Smokers

220

Exhibit C-15 (Cont.)

PERCEIVED HEALTH HAZARDS OF DIFFERENT KINDS OF CIGARETTES

(Current Regular Smokers)

BOYS

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Some kinds of cigarettes are probably more hazardous to health than others	42	65.6	32	69.6	41	78.8	115	71.0
Kind respondent usually smokes probably more hazardous	17	26.6	12	26.1	12	23.1	41	25.3
Kind respondent usually smokes probably less hazardous	18	28.1	9	19.6	11	21.2	38	23.5
Kind respondent usually smokes about the same as other kinds	7	10.9	10	21.7	17	32.7	34	21.0
Not specified	0	0.0	1	2.2	1	1.9	2	1.2
All cigarettes are probably about equally hazardous	19	29.7	12	26.1	11	21.2	42	25.9
Cigarettes are probably not hazardous to health at all	3	4.7	2	4.3	0	0.0	5	3.1
Not specified	0	0.0	0	0.0	0	0.0	0	0.0
Total	64	100.0	46	100.0	52	100.0	162	100.0

Base: Total Current Smokers

Exhibit C-15 (Cont.)

PERCEIVED HEALTH HAZARDS OF DIFFERENT KINDS OF CIGARETTES

(Current Regular Smokers)

GIRLS

	17,18,19		20,21		22,23		Total	
	N	%	N	%	N	%	N	%
Some kinds of cigarettes are probably more hazardous to health than others	47	66.2	37	66.1	23	59.0	107	64.5
Kind respondent usually smokes probably more hazardous	13	18.3	10	17.9	9	23.1	32	19.3
Kind respondent usually smokes probably less hazardous	24	33.8	17	30.4	11	28.2	52	31.3
Kind respondent usually smokes about the same as other kinds	9	12.7	9	16.1	3	7.7	21	12.7
Not specified	1	1.4	1	1.8	0	0.0	2	1.2
All cigarettes are probably about equally hazardous	22	31.0	19	33.9	15	38.5	56	33.7
Cigarettes are probably not hazardous to health at all	1	1.4	0	0.0	1	2.6	2	1.2
Not specified	1	1.4	0	0.0	0	0.0	1	0.6
Total	71	100.0	56	100.0	39	100.1	166	100.0

Base: Total Current Smokers

APPENDIX D

Technical Appendixes

Appendix D

Variable Description and Coding Structure

Variable	Type	Description
1	Continuous (3 ch)	Number of cigarettes smoked per day
		(a) None = 00.0
		(b) 1 - 6 per week = 01.0
		(c) 1 - 4 per day = 02.0
		(d) 5 - 9 per day = 07.0
		(e) 10 - 19 per day = 15.0
		(f) 20 + per day = 23.0
2	Continuous (3 ch)	How long smoking Actual number of months
		Nonsmokers = 000
3	Continuous (3 ch)	Tar level
4	Continuous (2 ch)	Intentions to smoke in five years
		(a) Definitely not = 4.0
		(b) Probably not = 3.0
		(c) Probably yes = 2.0
		(d) Definitely yes = 1.0
5-7	Dummy (3 state)	Smoking behavior of older siblings
		(5) Older siblings present, none smoke = 100
		(6) Older siblings present, one or more smoke = 010
		(7) No older siblings = 001
		Undetermined = 000
8-10	Dummy (3 state)	Smoking behavior of parents
		(8) Both parents present, neither smoke = 100
		(9) Both parents present, one or both smoke = 010
		(10) Both parents not present = 001
		Everybody else = 000

Variable	Type	Description
11-17	Dummy (7 state)	Parent-sibling combinations Both parents present, and one or more older siblings present, and: (11) No one smokes = 1000000 (12) No parent smokes and one or more sibling smokes = 0100000 (13) One or more parent smokes and no sibling smokes = 0010000 (14) One or more parent and one or more sibling smokes = 0001000 Both parents present, and no older siblings present, and: (15) Neither parent smokes = 0000100 (16) One or both parents smoke = 0000010 (17) Both parents not present, and no older siblings present = 0000001 Undetermined/everyone else = 0000000
18-19	Dummy (2 state)	Is smoking harmful (18) No = 10 (19) Yes = 01 DK = 00
20-21	Dummy (2 state)	Respondent's employment history (20) Part of year = 10 (21) All year = 01 Not at all = 00
22-24	Dummy (3 state)	Respondent's education (22) Other curriculum = 100 (23) College prep = 010 (24) Not in high school = 001 Undetermined = 000
25-26	Dummy (2 state)	Father's education (25) Some college or more = 10 (26) High school grad or less = 01 Undetermined = 00

Variable	Type	Description
27-28	Dummy (2 state)	Mother's education (27) Some college or more = 10 (28) High school grad or less = 01 Undetermined = 00
29	Continuous (1 ch)	Number of best friends who smoke Scaled 0 through 4
30-37	Continuous (8 @ 2 ch)	Eight factor scores (30) Health (31) Nonsmokers' rights (32) Positive aspects of smoking (33) Rationalization (34) Stereotype of smoking (35) Stereotype of smoker (36) Feeling toward authority (37) Control of future
38-40	Dummy (3 state)	1974 smoking status (38) Ex-smoker = 100 (39) Experimenter = 010 (40) Never = 001 Current regular = 000
41-43	Dummy (3 state)	1979 smoking status (41) Ex-smoker = 100 (42) Experimenter = 010 (43) Never = 001 Current regular = 000
44	Continuous (2 ch)	1974 age
45	Dummy (1 state)	Sex Male = 1 Female = 0

Variable	Type	Description
46	Continuous (2 ch)	1974 and 1979 smoking status combinations '74 -- never smoked '79 -- never smoked '74 -- never smoked '79 -- ex-smoker '74 -- never smoked '79 -- current regular smoker '74 -- never smoked '79 -- experimented '74 -- experimented '79 -- experimented '74 -- experimented '79 -- current regular smoker '74 -- experimented '79 -- ex-smoker '74 -- current regular smoker '79 -- current regular smoker '74 -- current regular smoker '79 -- ex-smoker '74 -- ex-smoker '79 -- ex-smoker '74 -- ex-smoker '79 -- current regular smoker
47	Continuous (6 ch)	Random number
48	Transformed (1 ch)	1979 smoking status 1979 current smoker = 1 All others = 0

INTERCORRELATION MATRIX

		X(4) 4	X(5) 5	X(6) 6	X(7) 7	X(8) 8	X(9) 9	X(10) 10	X(11) 11	X(12) 12	X(13) 13
X(4)	4	1.0000									
X(5)	5	0.0857	1.0000								
X(6)	6	-0.1340	-0.4397	1.0000							
X(7)	7	0.0542	-0.4878	-0.5279	1.0000						
X(8)	8	0.2044	0.1203	-0.1241	0.0066	1.0000					
X(9)	9	-0.1791	-0.1245	0.0966	0.0223	-0.8036	1.0000				
X(10)	10	0.0137	-0.0030	0.0176	-0.0092	-0.0976	-0.1260	1.0000			
X(11)	11	0.1692	0.6259	-0.2753	-0.3054	0.5058	-0.4064	-0.0494	1.0000		
X(12)	12	0.0185	-0.2071	0.4705	-0.2486	0.4118	-0.3309	-0.0402	-0.1296	1.0000	
X(13)	13	-0.0710	0.5763	-0.2534	-0.2812	-0.2898	0.3607	-0.0455	-0.1466	-0.1194	1.0000
X(14)	14	-0.1481	-0.3055	0.6947	-0.3667	-0.3780	0.4705	-0.0593	-0.1912	-0.1557	-0.1761
X(15)	15	0.1113	-0.2606	-0.2820	0.5342	0.5183	-0.4164	-0.0506	-0.1631	-0.1328	-0.1502
X(16)	16	-0.0242	-0.3122	-0.3375	0.6400	-0.3864	0.4808	-0.0606	-0.1954	-0.1591	-0.1799
X(17)	17	0.0132	-0.0453	-0.0490	0.0929	-0.0561	-0.0724	0.5744	-0.0284	-0.0231	-0.0261
X(18)	18	-0.0893	-0.0143	0.0298	-0.0088	-0.0776	0.0488	-0.0205	-0.0662	-0.0010	0.0191
X(19)	19	0.1094	0.0387	-0.0640	0.0167	0.0958	-0.0548	0.0277	0.0779	0.0193	-0.0148
X(20)	20	-0.0324	-0.0353	0.0645	-0.0127	-0.0559	0.0398	0.0383	-0.0483	-0.0076	-0.0190
X(21)	21	0.0074	0.0682	-0.0604	-0.0181	0.0574	-0.0250	-0.0020	0.0828	-0.0291	0.0280
X(22)	22	-0.0898	-0.0655	0.0838	-0.0158	-0.0435	0.0460	-0.0301	-0.0685	0.0142	0.0010
X(23)	23	0.0941	0.0270	-0.0070	-0.0152	0.0216	-0.0134	0.0403	0.0175	0.0040	0.0272
X(24)	24	-0.0078	0.0199	-0.0543	0.0269	0.0080	-0.0195	-0.0112	0.0287	-0.0141	-0.0293
X(25)	25	0.0967	0.0948	-0.1260	0.0395	0.1057	-0.0557	-0.0449	0.1363	-0.0577	0.0052
X(26)	26	-0.0742	-0.0842	0.1096	-0.0250	-0.0639	0.0656	0.0022	-0.1109	0.0495	-0.0034
X(27)	27	0.0749	0.0824	-0.0886	0.0213	0.0609	-0.0470	-0.0455	0.0970	-0.0409	-0.0007
X(28)	28	-0.0432	-0.0922	0.0915	0.0001	-0.0452	0.0523	0.0367	-0.0966	0.0511	-0.0062
X(29)	29	-0.3261	-0.0527	0.1217	-0.0538	-0.1409	0.1289	0.0318	-0.1148	-0.0088	0.0721
X(30)	30	0.2641	0.0294	-0.1103	0.0735	0.0857	-0.0387	-0.0024	0.0531	-0.0122	-0.0156
X(31)	31	0.3838	0.0068	-0.0919	0.0689	0.1233	-0.1243	0.0023	0.0671	0.0241	-0.0983
X(32)	32	-0.2079	-0.0064	0.0565	-0.0517	-0.0429	0.0204	-0.0094	-0.0574	0.0202	0.0341
X(33)	33	-0.1570	-0.0629	0.1075	-0.0458	-0.0711	0.0445	0.0068	-0.0748	0.0595	0.0036
X(34)	34	0.1583	0.0303	-0.0815	0.0354	0.0717	-0.0716	-0.0235	0.0247	0.0351	-0.0172
X(35)	35	0.2760	0.0652	-0.1101	0.0554	0.0701	-0.0645	-0.0126	0.0322	0.0048	0.0185
X(36)	36	0.1810	0.0146	-0.0296	0.0151	0.0630	-0.0228	-0.0206	0.0350	0.0362	-0.0233
X(37)	37	0.2222	0.0310	-0.0653	0.0367	0.0428	-0.0283	0.0258	0.0199	0.0164	0.0364
X(38)	38	-0.0698	-0.0507	0.0721	-0.0113	-0.0328	0.0312	-0.0068	-0.0708	0.0681	0.0318
X(39)	39	0.1504	-0.0013	0.0346	-0.0258	-0.0474	0.0281	0.0043	-0.0150	-0.0098	-0.0034
X(40)	40	0.1981	0.0773	-0.1841	0.0865	0.1521	-0.1475	-0.0109	0.1222	-0.0346	-0.0395
X(44)	44	-0.0232	-0.0185	0.0868	-0.0498	-0.0300	0.0484	0.0608	-0.0384	0.0433	0.0441
X(45)	45	0.0081	0.0271	-0.0064	-0.0173	0.0292	-0.0068	-0.0146	0.0168	0.0263	0.0234
X(48)	48	-0.3618	-0.0529	0.0972	-0.0472	-0.1498	0.1163	0.0163	-0.1093	-0.0275	0.0116

INTERCORRELATION MATRIX (CONT.)

		X(14) 14	X(15) 15	X(16) 16	X(17) 17	X(18) 18	X(19) 19	X(20) 20	X(21) 21	X(22) 22	X(23) 23
X(14)	14	1.0000									
X(15)	15	-0.1959	1.0000								
X(16)	16	-0.2347	-0.2002	1.0000							
X(17)	17	-0.0241	-0.0291	-0.0348	1.0000						
X(18)	18	0.0402	-0.0382	0.0106	-0.0118	1.0000					
X(19)	19	-0.0741	0.0355	0.0102	0.0159	-0.7412	1.0000				
X(20)	20	0.0597	-0.0263	0.0288	-0.0017	0.0480	-0.0694	1.0000			
X(21)	21	-0.0265	0.0156	-0.0389	0.0481	-0.0441	0.0568	-0.3716	1.0000		
X(22)	22	0.0850	-0.0056	-0.0237	-0.0367	0.0798	-0.1062	-0.0100	0.0499	1.0000	
X(23)	23	-0.0043	0.0050	-0.0255	0.0232	-0.0550	0.0386	0.0816	-0.0328	-0.3745	1.0000
X(24)	24	-0.0196	-0.0009	0.0461	0.0095	-0.0092	0.0454	-0.0679	-0.0174	-0.4516	-0.4384
X(25)	25	-0.0566	0.0563	-0.0097	0.0243	-0.0310	0.0356	-0.0274	0.0053	-0.1387	0.1660
X(26)	26	0.0736	-0.0171	0.0114	-0.0543	0.0365	-0.0302	0.0432	-0.0001	0.1434	-0.1002
X(27)	27	-0.0454	0.0315	-0.0031	-0.0173	-0.0211	0.0150	-0.0463	-0.0018	-0.1525	0.1556
X(28)	28	0.0510	-0.0127	0.0192	0.0047	0.0182	0.0015	0.0735	0.0041	0.1479	-0.0789
X(29)	29	0.1143	-0.0720	0.0049	-0.0113	0.0733	-0.0997	0.0780	0.0642	0.1884	0.0238
X(30)	30	-0.0966	0.0791	0.0531	-0.0319	-0.2577	0.3361	-0.0438	0.0047	-0.0603	0.0439
X(31)	31	-0.1022	0.0812	0.0317	-0.0340	-0.1363	0.1669	-0.0593	-0.0548	-0.1085	-0.0136
X(32)	32	0.0529	-0.0281	-0.0504	0.0341	0.0450	-0.0406	0.0111	0.0322	0.0336	-0.0910
X(33)	33	0.0711	-0.0747	-0.0159	0.0120	0.0544	-0.0792	0.0060	0.0059	0.0423	-0.0479
X(34)	34	-0.1073	0.0377	0.0187	-0.0135	-0.0644	0.0999	-0.0704	-0.0316	-0.0778	-0.1395
X(35)	35	-0.1238	0.0728	0.0293	-0.0329	-0.1307	0.1539	-0.0691	-0.0192	-0.0811	-0.1094
X(36)	36	-0.0348	0.0329	0.0155	-0.0350	-0.0606	0.0510	0.0267	-0.0100	-0.1020	-0.0116
X(37)	37	-0.0918	0.0326	0.0265	0.0186	-0.0467	0.0523	0.0220	-0.0581	-0.0618	0.1061
X(38)	38	0.0296	-0.0271	-0.0088	-0.0194	-0.0250	0.0149	0.0232	0.0856	0.0934	-0.0044
X(39)	39	0.0293	-0.0244	0.0057	-0.0135	-0.0280	0.0345	0.0407	-0.0231	-0.0092	0.0713
X(40)	40	-0.1680	0.0972	0.0049	0.0182	-0.0646	0.0765	-0.1168	-0.0554	-0.1417	-0.0454
X(44)	44	0.0801	-0.0403	-0.0349	0.0712	0.0428	-0.0590	0.1746	0.1094	0.1917	0.3206
X(45)	45	-0.0182	0.0044	-0.0054	0.0232	0.0611	-0.0574	0.1724	0.0837	-0.0302	0.0092
X(48)	48	0.1239	-0.0802	0.0121	-0.0172	0.0954	-0.0910	0.0419	0.0457	0.0877	-0.0638

INTERCORRELATION MATRIX (CONT.)

		X(24) 24	X(25) 25	X(26) 26	X(27) 27	X(28) 28	X(29) 29	X(30) 30	X(31) 31	X(32) 32	X(33) 33
X(24)	24	1.0000									
X(25)	25	-0.0774	1.0000								
X(26)	26	-0.0214	-0.7857	1.0000							
X(27)	27	-0.0255	0.4662	-0.3499	1.0000						
X(28)	28	-0.0486	-0.3400	0.4628	-0.8132	1.0000					
X(29)	29	-0.1860	-0.0926	0.0860	-0.0758	0.0834	1.0000				
X(30)	30	0.0644	0.1002	-0.0903	0.0855	-0.0699	-0.1798	1.0000			
X(31)	31	0.1112	0.0198	-0.0307	0.0349	-0.0329	-0.3148	0.3763	1.0000		
X(32)	32	0.0592	-0.0178	0.0168	0.0153	-0.0261	0.0949	-0.1756	-0.1205	1.0000	
X(33)	33	0.0089	-0.0342	-0.0125	-0.0938	0.0533	0.0907	-0.3224	-0.1874	0.1659	1.0000
X(34)	34	0.1916	-0.0436	0.0211	-0.0385	-0.0035	-0.1944	0.1414	0.3517	0.1768	0.0111
X(35)	35	0.1770	0.0014	-0.0101	0.0217	-0.0260	-0.3042	0.2868	0.4603	-0.0056	-0.0790
X(36)	36	0.0991	0.0157	-0.0073	-0.0354	0.0511	-0.1375	0.1446	0.1403	-0.1452	-0.1504
X(37)	37	-0.0482	0.0661	-0.0374	0.0453	-0.0215	-0.1475	0.1822	0.2339	-0.0662	-0.0160
X(38)	38	-0.0731	-0.0075	0.0173	0.0010	0.0226	0.1480	-0.0218	-0.0542	0.0071	-0.0012
X(39)	39	-0.0726	-0.0056	0.0343	0.0056	0.0360	-0.0556	0.0201	0.0519	-0.0740	0.1106
X(40)	40	0.2065	0.0405	-0.0784	0.0475	-0.1115	-0.3550	0.1429	0.2680	-0.0426	-0.1265
X(44)	44	-0.4727	0.0516	0.0364	-0.0169	0.1217	0.3027	-0.0563	-0.1870	-0.0227	-0.0543
X(45)	45	0.0144	0.0271	-0.0259	0.0202	-0.0262	-0.0850	-0.0003	-0.0733	0.0428	0.0166
X(48)	48	-0.0201	-0.0991	0.0966	-0.0772	0.0732	0.3002	-0.1829	-0.2422	0.1350	0.0869

		X(34) 34	X(35) 35	X(36) 36	X(37) 37	X(38) 38	X(39) 39	X(40) 40	X(44) 44	X(45) 45	X(48) 48
X(34)	34	1.0000									
X(35)	35	0.5292	1.0000								
X(36)	36	0.0114	0.0748	1.0000							
X(37)	37	0.1004	0.1710	0.0930	1.0000						
X(38)	38	-0.0498	-0.0745	-0.0610	0.0123	1.0000					
X(39)	39	0.0006	0.0481	0.0088	0.0581	-0.2360	1.0000				
X(40)	40	0.2055	0.2656	0.0878	0.0597	-0.2122	-0.6704	1.0000			
X(44)	44	-0.2794	-0.2802	0.0156	0.0418	0.0958	0.0796	-0.3162	1.0000		
X(45)	45	0.0312	-0.0048	-0.0329	-0.0577	0.0410	0.0010	-0.0312	0.0142	1.0000	
X(48)	48	-0.0501	-0.2058	-0.0923	-0.1294	0.1490	-0.1066	-0.2376	0.0773	-0.0279	1.0000

Multiple Discriminant Function Summaries

The following tables summarize the multiple discriminant function analysis for each 1974 smoking status subgroup (A_1, A_2, etc). The classification variables, at the top of each page, are listed in numerical order, not in the order in which they entered the equation.

The two classification matrices show the extent to which respondents could be classified into the appropriate 1979 smoking status category on the basis of the 1974 variables listed at the top of the page. The jackknifed classification is the more conservative of the two.

CLASSIFICATION FUNCTIONS

NONSMOKER IN 1974

Group A_1

Variable	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
4 x (4)	10.41831	9.22332	9.10956	10.02450
12 x (12)	-4.98407	-2.94106	-5.30443	-5.42323
25 x (25)	0.84960	0.88292	-0.01492	0.43703
33 x (33)	15.45912	16.11783	16.89944	15.43864
44 x (44)	45.70750	42.57347	43.49609	44.21767
Constant	-59.94861	-52.17929	-53.16042	-56.18039

Classification Matrix

		Number of Cases Classified into Group -			
Group	Percent Correct	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
Nonsmoker	51.7	46	12	14	17
Ex-Smoker	34.2	7	13	13	5
Current Regular Smoker	54.8	11	8	34	9
Experimenter	24.4	31	11	23	21
Total	41.5	95	44	84	52

Jackknifed Classification

		Number of Cases Classified into Group -			
Group	Percent Correct	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
Nonsmoker	47.2	42	14	14	19
Ex-Smoker	28.9	8	11	14	5
Current Regular Smoker	50.0	12	9	31	10
Experimenter	23.3	32	11	23	20
Total	37.8	94	45	82	54

CLASSIFICATION FUNCTIONS

NONSMOKER IN 1974

Group A_2

Variable	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
4 x (4)	8.08358	7.19845	6.98818	7.81793
12 x (12)	-3.14233	-0.87379	-2.92413	-2.47900
20 x (20)	-1.78003	-1.02330	-0.76424	-1.37227
34 x (34)	13.10822	14.35798	14.78782	14.15451
44 x (44)	43.08220	39.73973	40.50484	41.25346
Constant	52.77715	-46.84880	-47.42253	-50.38525

Classification Matrix

		Number of Cases Classified into Group -			
Group	Percent Correct	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
Nonsmoker	55.2	37	6	17	7
Ex-Smoker	21.1	9	8	15	6
Current Regular Smoker	61.3	14	3	38	7
Experimenter	22.4	39	10	34	24
Total	39.1	99	27	104	44

Jackknifed Classification

		Number of Cases Classified into Group -			
Group	Percent Correct	Nonsmoker	Ex-Smoker	Current Regular Smoker	Experimenter
Nonsmoker	52.2	35	6	18	8
Ex-Smoker	21.1	9	8	15	6
Current Regular Smoker	54.8	15	4	34	9
Experimenter	19.6	41	10	35	21
Total	35.8	100	28	102	44

CLASSIFICATION FUNCTIONS

EXPERIMENTER IN 1974

Group B_1

Variable	Experimenter	Current Regular Smoker	Ex-Smoker
4 x (4)	6.87268	6.20296	6.05026
23 x (23)	-0.95817	-1.50541	-1.38860
34 x (34)	2.94938	4.06504	1.68997
35 x (35)	4.00561	2.80657	5.26944
37 x (37)	30.08646	30.80032	32.23174
Constant	-36.16524	-34.22455	-36.47205

Classification Matrix

		Number of Cases Classified into Group -		
Group	Percent Correct	Experimenter	Current Regular Smoker	Ex-Smoker
Experimenter	49.4	80	39	43
Current Regular Smoker	45.5	29	51	32
Ex-Smoker	49.3	18	20	37
Total	48.1	127	110	112

Jackknifed Classification

		Number of Cases Classified into Group -		
Group	Percent Correct	Experimenter	Current Regular Smoker	Ex-Smoker
Experimenter	46.9	76	43	43
Current Regular Smoker	42.0	32	47	33
Ex-Smoker	45.3	18	23	34
Total	45.0	126	113	110

CLASSIFICATION FUNCTIONS

EXPERIMENTER IN 1974

Group B_2

Variable	Experimenter	Current Regular Smoker	Ex-Smoker
4 x (4)	3.68350	3.06292	2.88016
8 x (8)	-0.34676	-1.00531	-0.73714
13 x (13)	-1.49428	-2.35579	-2.75714
21 x (21)	-1.33425	-0.83263	-0.36606
31 x (31)	9.94461	8.23409	7.80780
34 x (34)	8.30367	8.97853	6.74977
35 x (35)	8.85717	8.06368	10.80629
37 x (37)	27.79840	28.26610	30.13371
44 x (44)	45.84221	44.15207	44.47948
Constant	-76.48088	-69.72816	-72.95255

Classification Matrix

		Number of Cases Classified into Group -		
Group	Percent Correct	Experimenter	Current Regular Smoker	Ex-Smoker
Experimenter	54.0	87	38	36
Current Regular Smoker	50.9	26	57	29
Ex-Smoker	52.0	22	14	39
Total	52.6	135	109	104

Jackknifed Classification

		Number of Cases Classified into Group -		
Group	Percent Correct	Experimenter	Current Regular Smoker	Ex-Smoker
Experimenter	54.0	87	38	36
Current Regular Smoker	47.3	27	53	32
Ex-Smoker	49.3	23	15	37
Total	50.9	137	106	105

CLASSIFICATION FUNCTIONS

CURRENT REGULAR SMOKER IN 1974

Group C_1

Variable	Current Regular Smoker	Ex-Smoker
1 x (1)	1.42686	0.76389
3 x (3)	11.52883	13.15944
18 x (18)	1.14940	-0.04560
35 x (35)	5.20267	2.77835
Constant	-13.79202	-13.85956

Classification Matrix

Group	Percent Correct	Number of Cases Classified into Group - Current Regular Smoker	Ex-Smoker
Current Regular Smoker	58.9	33	23
Ex-Smoker	78.0	9	32
Total	67.0	42	55

Jackknifed Classification

Group	Percent Correct	Number of Cases Classified into Group - Current Regular Smoker	Ex-Smoker
Current Regular Smoker	57.1	32	24
Ex-Smoker	75.6	10	31
Total	64.9	42	55

CLASSIFICATION FUNCTIONS

CURRENT REGULAR SMOKER IN 1974

Group C_2

Variable	Current Regular Smoker	Ex-Smoker
4 x (4)	4.22858	5.04743
23 x (23)	0.27224	1.58674
29 x (29)	4.34550	3.83093
34 x (34)	27.79828	23.55281
44 x (44)	99.44757	95.50243
45 x (45)	-4.50633	-3.43758
Constant	-102.74489	-95.32698

Classification Matrix

Group	Percent Correct	Number of Cases Classified into Group - Current Regular Smoker	Ex-Smoker
Current Regular Smoker	69.1	38	17
Ex-Smoker	78.0	9	32
Total	72.9	47	49

Jackknifed Classification

Group	Percent Correct	Number of Cases Classified into Group - Current Regular Smoker	Ex-Smoker
Current Regular Smoker	65.5	36	19
Ex-Smoker	73.2	11	30
Total	68.8	47	49

CLASSIFICATION FUNCTIONS

EX-SMOKER IN 1974

Group D

Variable	Ex-Smoker	Current Regular Smoker
4 x (4)	10.50298	9.06343
18 x (18)	27.50299	23.32220
30 x (30)	62.56660	57.58107
45 x (45)	4.84716	3.86416
Constant	-62.59303	-50.93050

Classification Matrix

Group	Percent Correct	Number of Cases Classified into Group - Ex-Smoker	Current Regular Smoker
Ex-Smoker	80.0	32	8
Current Regular Smoker	62.8	16	27
Total	71.1	48	35

Jackknifed Classification

Group	Percent Correct	Number of Cases Classified into Group - Ex-Smoker	Current Regular Smoker
Ex-Smoker	75.0	30	10
Current Regular Smoker	62.8	16	27
Total	68.7	46	37

1979 FOLLOW UP TO 1974 STUDY OF CIGARETTE SMOKING AMONG TEENAGERS

Chilton Research Services
Radnor, Pennsylvania 19089

Study #8076
January, 1979

1979 FOLLOW UP TO
1974 STUDY OF
CIGARETTE SMOKING AMONG TEENAGERS

OMB#51S78037
Expires August, 1979

Int. #_____ (1-5)

Sample ID#_____ (6-11)

Sex:

Male 12-	1	
Female	2	

Age at Last Interview_____ (13-14)

Q.D.-Present Age_____ (15-16)

1. Have you ever smoked a cigarette? 17-

SKIP TO Q. 3	Yes	0
	No	1

2. Have you ever tried or experimented with cigarette smoking, even a few puffs? 18-

	Yes	0
SKIP TO Q. 50	No	1

3. How old were you when you first smoked a cigarette?

_____ (Age) 19-20-

4. Do you smoke cigarettes now? 21-

SKIP TO Q. 26	Yes	0
	No	1

5. Have you smoked as many as 5 packs of cigarettes in your lifetime? 22-

	Yes	0
SKIP TO Q. 50	No	1

6. About how often did you smoke just before you stopped smoking cigarettes regularly? (READ LIST) 23-

CONTINUE	Just about every day	0
SKIP TO Q. 8	Every week	1
	Every month	2
	Less often than every month	3

7. On the average, about how many cigarettes a day were you smoking when you smoked cigarettes fairly regularly?

#_____ (24-25) Per Day

Less than 1 per day (1-6 per week)	00

8. How long has it been since you smoked cigarettes?

Years	
Months	

Less than one month	000
Don't Remember	998

26- 27- 28-

IF RESPONDENT IS A "FORMER" SMOKER, "NO" TO Q. 4 AND "YES" TO Q. 5, CONTINUE. ALL OTHERS, SKIP TO Q. 49

9. Now, thinking about cigarette smoking, how old were you when you started smoking cigarettes fairly regularly?

_____ Years Old
(29-30)

10. What brand of cigarettes did you usually smoke when you stopped smoking cigarettes regularly?

_____ Brand

IF ONLY ONE BRAND MENTIONED, SKIP TO Q. 12.
IF MORE THAN ONE BRAND MENTIONED, ASK Q. 11

11. Which one did you smoke most?

_____ Brand

ASK Q. 12 ABOUT "SINGLE BRAND" IN Q. 10 OR BRAND IN Q. 11

12. What type of cigarettes were they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED" ASK Q. 12a)

Type [ ][ ][ ]
31- 32- 33-

12a. (ASK IF BRAND "UNSPECIFIED" IN Q. 12) Were they . . .

a. Filter? 34-		b. Menthol? 35-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 36-		d. Length 37-	
Hard pack?	0	Regular?	0
Soft pack?	1	King?	1
		100 mm?	2
		120 mm ?	3

FOR OFFICE USE ONLY

TAR VALUE	(38-39)	

13. For how long had you been smoking (BRAND IN Q. 10 OR Q. 11)? (RECORD NUMBER OF YEARS)

Years	
Months	

Less than one month	000
Don't Remember	998

40- 41- 42-

14. When you bought cigarettes, did you usually buy cigarettes by the pack or by the carton?

43-

By the pack	1
By the carton	2
Didn't buy my cigarettes	3

15. How old were you when you stopped smoking cigarettes regularly?

_____ Years Old
(44-45)

16. So that would be (Q. 15 MINUS Q. 9) years that you smoked cigarettes fairly regularly?

_____ Years
(46-47)

17. At any time since you started smoking, did you quit and then start smoking cigarettes again?

48-

	Yes	0
SKIP TO Q. 22	No	1

18. Thinking of the last time you quit and then started smoking again, for how long a time did you continue to smoke? (RECORD NUMBER)

Days	(49-50)	
Weeks	(51-52)	
Months	(53-54)	
Years	(55-56)	
Don't Remember	(49-50)	98

19. What brand of cigarette did you usually smoke at that time?

_____ Brand

20. What type of cigarette were they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED", ASK Q. 20a.

57- 58- 59-

Type [ ][ ][ ]

20a. (ASK IF BRAND "UNSPECIFIED" IN Q.20.) Were they . . .

a. Filter? 60-		b. Menthol? 61-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 62-		d. Length 63-	
Hard pack?	0	Regular?	0
Soft pack?	1	King?	1
		100 mm?	2
		120 mm ?	3

FOR OFFICE USE ONLY

TAR VALUE	(64-65)	

Sp. (66)

21. Before the time you stopped smoking entirely, about how many times would you say you made a fairly serious attempt to stop smoking cigarettes?

RECORD NUMBER OF TIMES (67-68)	
Don't Know number of times	98

22. On the average, about how many cigarettes a day did you smoke during the period in your life that you were smoking the heaviest?

69- [ ]
70- [ ]

_____ Cigarettes per day

Less than 1 per day	00

23. Thinking back to the last time you stopped smoking cigarettes, how hard did you find it to stop smoking cigarettes? Was it . . . (READ LIST)

71-

Very easy	1
Fairly easy	2
Fairly hard, or	3
Very hard	4

24. After you stopped, did you feel a strong desire to smoke cigarettes again?

72-

Yes	0
No	1
Don't Remember	8

25. Before you stopped smoking entirely, did you ever try just to cut down the number of cigarettes you allowed yourself to smoke without trying to stop smoking entirely?

73-

SKIP TO Q. 49	Yes	0
	No	1
	Don't Know	3

END CARD # 1 80 - (1) (DUP. 1-5)

26. Have you smoked as many as 5 packs of cigarettes in your life?

6-

Yes	0
No	1

27. About how often do you smoke? (READ LIST)

7-

CONTINUE	Just about every day	0
SKIP TO Q. 30	Every week	1
	Every month	2
	Less often than every month	3

28. How many cigarettes do you smoke in a day?

8-
9-

_____

Less than 1 per day (1-6 per week)	00

29. How long have you been smoking (NUMBER IN Q.28) per day?

10-
11-
12-

Years	
Months	

Less than one month	000
Don't remember	998

SPACE (13-15)

30. Now, thinking about cigarette smoking, How old were you when you started smoking cigarettes fairly regularly?

_____ Years Old
(73-74)

31. So that would be (Q. 30 minus present age) years that you smoked cigarettes fairly regularly? (REFER TO PRESENT AGE ON SCREENING FORM)

_____ Years
(75-76)

32. What brand of cigarettes do you usually smoke?

_____ Brand

IF ONLY ONE BRAND MENTIONED, SKIP TO Q. 34.
IF MORE THAN ONE BRAND MENTIONED, ASK Q. 33

33. Which brand do you smoke most?

_____ Brand

ASK Q. 34 ABOUT "SINGLE BRAND" IN Q. 32 OR BRAND IN Q. 33

34. What type of cigarettes are they? (ENTER 3-DIGIT BRAND FROM BRAND LIST. IF "BRAND UNSPECIFIED", ASK Q. 34a)

Type [ ][ ][ ]
16- 17- 18-

34a. (ASK IF BRAND "UNSPECIFIED" IN Q. 34) Are they . . .

a. Filter? 19-		b. Menthol? 20-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 21-		d. Length 22-	
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 MM?	2
		120 MM?	3

FOR OFFICE USE ONLY

TAR VALUE	(23-24)	

IF ONLY ONE BRAND MENTIONED IN Q. 32, SKIP TO Q. 37.
IF MORE THAN BRAND MENTIONED IN Q. 32, ASK Q. 35

35. Which brand do you smoke next most often?

_____ Brand

36. What type of cigarettes are they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED", ASK Q. 36a.)

Type [ ] [ ] [ ]
25- 26- 27-

36a. (ASK IF "BRAND UNSPECIFIED" IN Q. 36) Are they . . .

a. Filter? 28-		b. Menthol? 29-	
Yes	0	Yes	0
No	1	No	1

c. Pack Type 30-		d. Length 31-	
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 MM?	
		120 MM?	

FOR OFFICE USE ONLY

TAR VALUE	(32-33)	

37. For how long have you been smoking (BRAND IN Q. 32 OR Q. 33)? (RECORD NUMBER OF YEARS)

Years		34-
Months		35-
		36-

Less than 1 month	000
Don't remember	998

IF RESPONDENT IS A "CURRENT" SMOKER - "YES" TO Q. 4 AND "YES" TO Q. 26 CONTINUE.

ALL OTHERS, SKIP TO Q. 49

38. Have you, at any time, stopped smoking the brand you usually smoked and completely changed to a different brand of cigarettes?

37-

	Yes	0
SKIP TO Q. 41	No	1

39. What brand were you smoking before you changed to your present brand?

_____ Brand

40. What type of cigarettes were they? (ENTER 3-DIGIT BRAND CODE FROM BRAND LIST. IF "BRAND UNSPECIFIED", ASK Q. 40a.)

Type			
	38-	39-	40-

40a. (ASK IF "BRAND UNSPECIFIED" IN Q. 40) Were they . . .

a. Filter?	41-	b. Menthol?	42-
Yes	0	Yes	0
No	1	No	1

c. Pack Type	43-	d. Length	44-
Hard Pack?	0	Regular?	0
Soft Pack?	1	King?	1
		100 mm ?	2
		120 mm?	3

Tar Value	45-46	

41. When you buy cigarettes, do you usually buy cigarettes by the pack or by the carton?

47-

By the pack	1
By the carton	2
Don't buy my cigarettes	3

42. Since you started smoking, have you ever made a serious attempt to stop smoking?

48-

SKIP TO Q. 45	Yes	0
	No	

43. Have you ever thought about quitting cigarette smoking.

	49-
Yes	0
No	1
Don't Remember	8

44. If there were an easy way to stop smoking, would you try it?

		50-
SKIP TO Q. 48	Yes	1
	Probably	2
	Depends	3
	No	4
	Don't Know	8

45. About how many times would you say you have made a fairly serious attempt to stop smoking cigarettes entirely?

	(51-52)
RECORD NUMBER OF TIMES HERE	
Don't Know Number of Times	98

46. How long ago was the start of the last time you tried to stop entirely? (RECORD NUMBER)

Days ago (53-54)	
Weeks ago (55-56)	
Months ago (57-58)	
Years ago (59-60)	
Don't Remember (53-54)	98

47. How long did you actually stay off cigarettes the last time?

Days (61-62)	
Weeks (63-64)	
Months (65-66)	
Years (67-68)	
Don't Remember (61-62)	98

48. Since you started smoking, did you ever try just to cut down the number of cigarettes you allowed yourself to smoke without trying to stop smoking entirely?

	69-
Yes	0
No	1
Don't Know	8

49. Did any doctor ever advise you either to quit or cut down your cigarette smoking or to continue it? (PROBE FOR ALL POSSIBILITIES. IF MORE THAN ONE, CIRCLE LAST KIND OF ADVICE RECEIVED) (READ LIST)

	70-
Yes, both quit and cut down	1
Yes, quit	2
Yes, cut down	3
Yes, continue smoking	4
No	5
Don't remember	8

50. What would you say is the possibility that 5 years from now you will be a cigarette smoker? Would you say . . . (READ LIST)

		71-
	Definitely yes	0
	Definitely not	1
	Probably yes	2
	Probably not	3
DON'T READ	Don't Know/No Answer	8

51. Is your family doctor <u>now</u> a cigarette smoker?

	72-
Yes	0
No	1
Have no family doctor	2
Don't Know	8

END CARD # 2

80 - 2

52. Do you have any older brothers? DUP COLS. 1-5, 6-

	Yes	0
SKIP TO Q. 57	No	1

53. How many older brothers do you have altogether, both living in your household and those not living in your household? (IF "8 OR MORE", RECORD "8")

(Older Brothers) 7-

54. What are their ages? (What is his age?) (WRITE EACH AGE IN COL. 1 BELOW)

(FOR EACH BROTHER, ASK:)
55. Does your_____year old brother smoke cigarettes?
(CIRCLE CORRECT RESPONSE IN COL. 2 BELOW)

(IF RESPONSE IS "YES," ASK:)
56. Does he smoke just about every day or not?
(CIRCLE CORRECT RESPONSE IN COL. 3 BELOW)

(REPEAT Q.'s 55 AND 56 FOR EACH BROTHER LISTED BELOW IN COL. 1)

Col. 1		Col. 2 Smoke			Col. 3 Daily		
Age of Brothers		Yes	No	D.K.	Yes	No	D.K.
1	8-9	10- 0	1	8	11- 0	1	8
2	12-13	14- 0	1	8	15- 0	1	8
3	16-17	18- 0	1	8	19- 0	1	8
4	20-21	22- 0	1	8	23- 0	1	8
5	24-25	26- 0	1	8	27- 0	1	8
6	28-29	30- 0	1	8	31- 0	1	8
7	32-33	34- 0	1	8	35- 0	1	8
8	36-37	38- 0	1	8	39- 0	1	8

57. Do you have any older sisters?

		40-
	Yes	0
SKIP TO Q. 62	No	1

58. How many older sisters do you have altogether, both living in your household and those not living in your household? (IF "8 OR MORE", RECORD "8")

(Older Sisters) 41-

59. What are their ages? (What is her age?) (WRITE EACH AGE IN COL. 1 BELOW)

(FOR EACH SISTER, ASK:)

60. Does your_____year old sister smoke cigarettes?
(CIRCLE CORRECT RESPONSE IN COL. 2 BELOW)

(IF RESPONSE IS "YES," ASK:)

61. Does she smoke just about every day or not?
(CIRCLE CORRECT RESPONSE IN COL. 3 BELOW)

(REPEAT Q.'s 60 AND 61 FOR EACH SISTER LISTED BELOW IN COL. 1)

Col. 1		Col. 2 Smoke			Col. 3 Daily		
Age of Sisters		Yes	No	D.K.	Yes	No	D.K.
1	42-43	44- 0	1	8	45- 0	1	8
2	46-47	48- 0	1	8	49- 0	1	8
3	50-51	52- 0	1	8	53- 0	1	8
4	54-55	56- 0	1	8	57- 0	1	8
5	58-59	60- 0	1	8	61- 0	1	8
6	62-63	64- 0	1	8	65- 0	1	8
7	66-67	68- 0	1	8	69- 0	1	8
8	70-71	72- 0	1	8	73- 0	1	8

END CARD # 3

80 - (3)

62. Would you say smoking is harmful to health?

6-

Yes	0
No	1
Don't Know	8

63. How many of your four best friends have at least experimented with smoking cigarettes?

7-

SKIP TO Q. 66	None experimented	0
SKIP TO Q. 65	One	1
CONTINUE	Two	2
	Three	3
	Four	4
SKIP TO Q. 66	No four best friends	6

64. Of these _____ friends, how many have just experimented, how many smoke occasionally, and how many smoke regularly?

Friends	Col. 1 Experimented	Col. 2 Occasionally	Col. 3 Regularly
None	8- 0	9- 0	10- 0
One	1	1	1
Two	2	2	2
Three	3	3	3
Four	4	4	4

(NOW SKIP TO Q. 66)

(COLUMNS 1, 2 & 3 MUST EQUAL NUMBER IN Q. 63)

65. Has this friend just experimented, or does he (she) smoke occasionally, or regularly?

11-

Experimented	0
Occasionally	1
Regularly	2

ASK OF ALL RESPONDENTS

DUP. COLS. 1-5

66. Now, I'm going to read some statements about cigarette smoking. As I read each statement, please tell me whether you agree, disagree, or neither agree nor disagree.

(READ STATEMENT): Do you agree, disagree or neither agree nor disagree?
(IF AGREE, ASK:) Do you strongly agree or mildly agree?
(IF DISAGREE, ASK:) Do you strongly disagree or mildly disagree?
(IF NEITHER AGREE OR DISAGREE:) GO TO NEXT STATEMENT

	Strongly Agree	Mildly Agree	Neither Agree Nor Disagree	Mildly Disagree	Strongly Disagree
A. Cigarette smoking can harm the health of teenagers	6- 5	4	3	2	1
B. Cigarette smoke smells bad	7- 5	4	3	2	1
C. Most girls start smoking cigarettes to try to attract boys	8- 5	4	3	2	1
D. People smoke cigarettes to help them think more clearly	9- 5	4	3	2	1
E. Kids who smoke are show-offs	10- 5	4	3	2	1
F. I feel good knowing I can turn to my parents for advice	11- 5	4	3	2	1
G. I don't want to get hooked on anything, including cigarettes	12- 5	4	3	2	1
H. It's okay for teenagers to experiment with cigarettes if they quit before it becomes a habit	13- 5	4	3	2	1
I. I believe the health information about smoking is true	14- 5	4	3	2	1
J. Cigarette smoking should be forbidden inside public places	15- 5	4	3	2	1
K. Most boys start smoking cigarettes to try to become more popular	16- 5	4	3	2	1
L. People who smoke seem to be more at ease with others	17- 5	4	3	2	1
M. Teenage smokers think they are grown-up, but they really aren't	18- 5	4	3	2	1
N. I wish I were older than I am now	19- 5	4	3	2	1
O. I can control the kind of person I will become	20- 5	4	3	2	1

Q. 66 (CONTINUED)

	Strongly Agree	Mildly Agree	Neither Agree Nor Disagree	Mildly Disagree	Strongly Disagree
P. Cigarette smoking is harmful only if the person inhales	21- 5	4	3	2	1
Q. There's nothing wrong with smoking cigarettes as long as you don't smoke too many	22- 5	4	3	2	1
R. If I smoke around other people, I take away their right to breathe clean air	23- 5	4	3	2	1
S. If you don't smoke cigarettes, other teenagers put you down	24- 5	4	3	2	1
T. Smoking cigarettes gives you a good feeling	25- 5	4	3	2	1
U. Teenage smokers think they look cool, but they don't really	26- 5	4	3	2	1
V. A teenager should be able to do the things he wants to do when he wants to do them	27- 5	4	3	2	1
W. I do not want to be just one of the crowd	28- 5	4	3	2	1
X. Teenagers who smoke regularly can quit for good any time they like	29- 5	4	3	2	1

END CARD # 5

80 - (5)

IF RESPONDENT IS A "CURRENT" SMOKER -- "YES" TO Q. 4, AND "YES" TO Q. 26 CONTINUE.

IF RESPONDENT IS "YES" TO Q. 4 AND "NO" TO Q. 26, SKIP TO Q. 71.

ALL OTHERS, SKIP TO Q. 74

67. Are you in any way concerned about the possible effects of cigarette smoking on your health?

12-

	Yes	0
SKIP TO Q. 69	No	1
	Don't Know	8

68. Would you say you were . . . (READ LIST)

13-

	Only slightly concerned	1
	Fairly concerned, or	2
	Very concerned?	3
DON'T READ	Don't Know	8

69. In your opinion, would you say . . . (READ LIST)

14-

CONTINUE	Some kinds of cigarettes are probably more hazardous to health than others, or		1
SKIP TO Q. 71	All cigarettes are probably about equally hazardous, or		2
	Do you think that cigarettes are probably NOT hazardous to health at all?		3
	DO NOT READ	Don't Know	8
		Refused	9

70. Do you think the kind of cigarette you usually smoke is . . . (READ LIST)

15-

Probably more hazardous to health than other kinds of cigarettes, or		1
Probably less hazardous to health than other kinds, or		2
Probably about the same as other kinds?		3
DON'T READ	Don't Know	8
	Refused	9

71. On the average, about how much do you pay for a pack of cigarettes?

_____¢
(16-18)

SKIP TO Q. 74	Don't Know	998

72. If the cost of a pack of cigarettes were (DOUBLE AMOUNT IN Q. 71), would you be likely or unlikely to smoke cigarettes?

(IF "LIKELY:" ASK) Would you be very or somewhat likely?

(IF "UNLIKELY:" ASK) Would you be very or somewhat unlikely?

19-

	Very likely	1
	Somewhat likely	2
SKIP TO	No opinion/don't know	3
Q. 74	Somewhat unlikely	4
	Very unlikely	5

73. If the cost of a pack of cigarettes were (TRIPLE AMOUNT IN Q. 71), would you be likely or unlikely to smoke cigarettes?

(IF "LIKELY": ASK) Would you be very or somewhat likely?

(IF "UNLIKELY": ASK) Would you be very or somewhat unlikely?

20-

Very likely	1
Somewhat likely	2
No opinion/don't know	3
Somewhat unlikely	4
Very unlikely	5

74. As far as you are aware, has cigarette smoking affected the health of anyone you personally know -- such as a family member, a friend, yourself, someone at work, or some other acquaintance?

21-

Yes	0
No	1
Don't Know	8

75. Has anyone, including yourself, that you have personally known, ever had coronary heart disease? (RECORD BELOW)

How about lung cancer? (RECORD BELOW)

And finally, emphysema (em-fi-see-ma) or chronic bronchitis? (RECORD BELOW)

Disease	Yes	No
Coronary Heart Disease 22-	0	1
Lung Cancer 23-	0	1
Emphysema or Chronic Bronchitis 24-	0	1

76. Are you now in school?

25-

	Yes	0
SKIP TO Q. 79	No	1

77. What grade are you now at school?

(26-27)

SKIP TO Q.80	7	01
	8	02
ASK Q.78	9	03
	10	04
	11	05
	12	06
SKIP TO Q.80	College:	
	Freshman	07
	Sophomore	08
	Junior	09
	Senior	10
	Vocational or trade school	11
	Commercial or business school	12
	Other (nursing school, etc.)	13

78. (IF STILL IN GRADES 9-12 IN Q.77, ASK:)
What course are you taking in school? Are you in a course that prepares you for college or some other course?

28-

SKIP TO Q. 80	College preparatory	0
	Other	1

79. What is the last grade you completed?

29-

	Grade school (1-8)	1
	Some high school (9-12)	2
	High school graduate	3
	Some college	4
	College graduate	5
	Postgraduate work	6
DO NOT READ	Don't Know	8

80. What is your marital status right now? Are you . . . (READ LIST)

30-

Married		1
Widowed		2
Divorced		3
Separated		4
Single (Never married)		5
DON'T READ	Refused	9

81. During the past year, that is, the past 12 months, did you work all year round, or only part of the year, or not at all?

31-

	All year	0
	Part of year	1
SKIP TO Q. 85	Not at all	2

82. When you worked, did you work part-time or full-time?

32-

SKIP TO Q. 84	Part-time	0
	Full-time	1

83. What is your occupation?

Occupation:_____

Job Title:_____

Industry:_____

33-
34-

84. What was your income before taxes for the past 12 months? Was it . . . (READ LIST)

35-

	Less than $3,000	Yes	0
	Less than $5,000	Yes	1
	Less than $7,000	Yes	2
	Less than $10,000	Yes	3
	Less than $15,000	Yes	4
	Less than $20,000	Yes	5
	Less than $25,000	Yes	6
DO		No	7
NOT	Don't Know		8
READ	Refused		9

85. Are you presently living in . . . (READ LIST)

36-

SKIP TO Q.87	Your parent's household	1
ASK Q. 86	Your own household	2
SKIP TO	A military base	3
CLOSING	A dormitory, or	4
ASK Q. 86	Someplace else (SPECIFY ON VERBATIM SHEET)	5

86. Are you the head of this house?

37-

SKIP TO Q. 88	Yes	0
CONTINUE	No	1

87. What is the occupation of the head of the house?

38-
39-

Occupation:_____

Job Title:_____

Industry:_____

88. And finally, what was your total family income before taxes for the past 12 months? Was it . . . (READ LIST)

40-

	Less than $3,000	Yes	0
	Less than $5,000	Yes	1
	Less than $7,000	Yes	2
	Less than $10,000	Yes	3
	Less than $15,000	Yes	4
	Less than $20,000	Yes	5
	Less than $25,000	Yes	6
DO		No	7
NOT	Don't Know		8
READ	Refused		9

CARD # 6 DUP. COLS. 1-5

CLOSING

RECORD RESPONDENT'S NAME

(6-24)

VERIFY TELEPHONE NUMBER, RECORD BELOW, THEN TERMINATE

(25-34)

END CARD # 6
80 - 6

For Classification Purposes can you please tell me the state in which you live?

016	AL	173	IN	298	MT	412	PA
038	AZ	184	IA	304	NB	431	RI
047	AR	194	KS	318	NV	455	SC
059	CA	206	KY	321	NH	464	SD
078	CO	217	LA	332	NJ	476	TN
081	CT	221	ME	348	NM	487	TX
092	DE	235	MD	352	NY	498	UT
105	DC	241	MA	365	NC	501	VT
115	FL	253	MI	374	ND	515	VA
125	GA	264	MN	383	OH	549	WA
158	ID	276	MS	397	OK	555	WV
163	IL	284	MO	409	OR	563	WI
						578	WY

STATE REGION

41 42 43

Date of Interview
(Enter Julian Date
from Conversion Table)

Thank You very much.

It's been a pleasure talking with you.

END CARD # 4

80 - 4

FOR USE IN DETERMINING CORRECT SKIP PATTERNS

Q.4

YES	0
No	1

Q.2

YES	0
NO	1

Q. 26

YES	0
NO	1

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